Arizona Department of Environmental Quality 1999 **COST CEILINGS Cost Ceiling Item Amounts** Arizona Department of Environmental Quality

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Invoice and Submittal Requirements for Task Based and Unit Based Cost Items

Invoice and Submittal Requirements for Task Based Cost Items under the 1999 Cost Ceilings:

Task Based Cost Ceiling Items are indicated on the attached documents by a TB designation. For TB items, applicants will no longer be required to submit detailed invoices which indicate the level of consultant and/or contractor utilized on a particular task based activity, how much time was required to complete that TB activity, and the material costs incurred for that TB item. However, applicants must still submit invoices which contain the name of the company rendering service(s), the activity performed, the number of units performed, and the total amount charged. {PLEASE NOTE: THE REVISED REQUIREMENTS FOR TASK BASED COST CEILING ITEMS ONLY APPLIES IF THE AMOUNT SUBMITTED FOR REIMBURSEMENT AND OR PRE-APPROVAL DOES NOT EXCEED THE COST CEILING AMOUNT.}

An example of the Task Based (TB) invoice submittal requirements follows: Cost Ceiling Item Code no. 234 is a TB cost ceiling item entitled "Approved Site Characterization Work Plan Scenario 1: Soil Only". Evaluation of claimed costs for this task, utilizing cost schedules prior to the 1998 Cost Ceilings, required invoice detail that provided a breakdown of the time, personnel and material. The invoice detail included each level of employee who worked on the work plan, the number of hours spent by each employee, and individual material costs incurred during completion of the Work Plan.

For the 1998 and 1999 Cost Ceilings, this TB cost ceiling item does not require such detailed support documentation. For each TB cost ceiling item, such as Cost Ceiling number 234, the applicant still must submit an invoice; however, the invoice only needs to show the type of activity performed, the number of units performed, and the total cost.

Below is an example of how this activity should be shown on the SAF Application:

XYZ COMPANY

Cost Ceiling		(a)	(b)	(c = a*b) Total Submitted
Number	Cost Ceiling Item	# of Units	(\$) Amount	For Payment
234	Approved Site Characterization Work Plan Scenario 1: Soil Only	1	\$ 3,200	\$3,200

Another example would be the use of a hollow-stem auger drill rig to install a 2-inch groundwater monitoring well at a depth approximately 50 feet bgs. All costs associated with this task could be submitted using TB Cost Ceiling Number 81, "Installation of 2" Wells by Hollow Stem Auger, <= 50 Feet":

XYZ COMPANY

	(a)	(b)	(c = a*b)
			Total Submitted
Cost Ceiling Item	# of Units	(\$) Amount	For Payment
-			-
Installation of 2" Wells by			
Hollow Stem Auger <= 50 feet	50	\$30	\$1,500
l	Cost Ceiling Item Installation of 2" Wells by Hollow Stem Auger <= 50 feet	Cost Ceiling Item # of Units	Cost Ceiling Item # of Units (\$) Amount Installation of 2" Wells by

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Invoice and Submittal Requirements for Task Based and Unit Based Cost Items

One final TB Cost Ceiling Item example would be the installation of a 2-inch groundwater monitoring well at a depth approximately 125 feet bgs. Here, because the depth covers three different TB Cost Ceiling Items (i.e., depths less than or equal to 50 feet bgs, depths equal to or greater than 50 feet bgs and less than or equal to 100 feet bgs, and depths greater than 100 feet), the submittal requirements are as follows:

XYZ COMPANY

Cost Ceiling		(a)	(b)	(c = a*b) Total Submitted
Number	Cost Ceiling Item	# of Units	(\$) Amount	For Payment
158	Installation of 2" Wells by Hollow Stem Auger, <= 50 feet	50	\$30	\$1,500
159	Installation of 2" Wells by Hollow Stem Auger, 51 to 100 feet	50	\$34	\$1,700
83	Installation of 2" Wells by Hollow Stem Auger, >100 feet	25	\$36	\$ 900
	TOTAL:	<u>125</u>		<u>\$4,100</u>

It is important to remember that submitting non-detailed back-up invoices is only allowed for Task Based Cost Ceiling Items in which the applicant is NOT submitting costs above the Cost Ceiling Amount. Under the 1998 and 1999Cost Ceilings, if an applicant is applying for an amount <u>above</u> the TB Cost Ceiling Amount, then the applicant is required to submit detailed time and material invoices.

Invoice and Submittal Requirements for Unit Based Cost Items under the 1999 Cost Ceilings:

Unit Based Cost Ceiling Items are indicated on the attached documents by a UB designation. For UB items, applicants continue to be required to submit detailed invoices which indicate which level of consultant and/or contractor who worked on a particular unit based item, how much time was required to complete that UB item, and the material costs for that UB item.

It is important to note that many of the unit based cost ceiling items will only be used for corrective action activities which are not covered by a task based cost ceiling item. For example, Cost Ceiling Number's 1 through 12 are all Unit Based cost ceiling items which pertain to personnel rates. If a particular personnel was used to complete a Task Based cost ceiling, than no line item detail is required for that person. For example, Cost Ceiling Number 3 is a Unit Based cost ceiling for a Staff Level employee. If that Staff Level employee worked on a Task Based item such as Cost Ceiling Number 234 discussed above (Site Characterization Work Plan), than no detail showing the Staff Level employee is required. The invoice for Cost Ceiling Number 234 can be submitted in the manner described above. However, if a Staff Level employee works on a corrective action activity which is not listed in the 1998 or 1999 Cost Ceilings, for example obtaining off-site access, than a detailed time and materials invoice is still required. Similar examples can also be shown for the Unit Based Equipment Rental Cost Ceilings numbered 142 through 175.

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Invoice and Submittal Requirements for Task Based and Unit Based Cost Items

NOTE: Selected cost items such as the Interim Site Characterization Report and Consultant Preparation of SAF Work Plan to Implement a CAP intentionally have been omitted from the 1999 Cost Ceilings. ADEQ will not reimburse for such tasks/items in the future. Please note that tasks not included in the 1999 Cost Ceilings may be considered a non-reimbursable expense. If an expense is in question, please contact ADEQ for clarification regarding SAF eligibility.

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under the 1999 Cost Ceilings:

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1999 Cost Ceiling Item Descriptions

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	Personnel Rates – Mileage – Per Diem			
1	Professional Services Rates: Principal Level	The authorized tasks for a Principal Level Professional include: direct professional staff; serve as technical expert or coordinator of large or technically challenging projects; provide final review of project documents that legally bind the company; limited site visits on complex projects. Assume no per diem allowance.		
2	Professional Services Rates: Senior Level	The authorized tasks for a Senior Level Professional include: project management/oversight; limited work plan preparation on complex sites; final report preparation/review; develop and oversee project budget; work plan review; coordinate with agency, client and contractors; hydrogeologic and contaminate modeling; equipment specification review; occasional site visits during site characterization activities; conduct field activities during complex remediation activities; supervise complex remediation activities. Assume no per diem allowance.		
3	Professional Services Rates: Project Level	The authorized tasks for a Project Level Professional include: work plan preparation; field work preparation and planning; occasional site visits during site characterization activities; conduct field activities during complex remediation activities; report preparation and review; data review and analysis; equipment selection and design; supervise UST soil and groundwater characterization and remediation activities; oversight of waste characterization, transportation, and disposal. Assume no per diem allowance.		
4	Professional Services Rates: Staff Level	The authorized tasks for a Staff Level Professional include: report preparation; remediation system installation, operation, and maintenance; site reconnaissance and mapping; obtain site access; installation of soil borings, groundwater monitoring wells and remedial injection and extraction wells; supervise UST removal, groundwater sample collection, soil removal, and other on-site remediation activities; assist with waste characterization, transportation, and disposal; assist in modeling and data analysis. Assume no per diem allowance.{PRIVATE}		
5	Professional Services Rates: Field Level	The authorized tasks for a Field Level Professional include: field activities associated with periodic groundwater monitoring and monthly static water level/free product gauging; well purging and development; free product removal; sample collection, limited contractor supervision; field equipment/sample preparation; decontamination; other routine field activities. Assume no per diem allowance.		

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6	Professional Services Rates: Technical Personnel (CADD, Computer, Map Production, etc.)	The authorized tasks for Technical Personnel include: CADD work; generate new drawings, maps and plans; revisions to existing drawings, maps, and plans. Assume no per diem allowance.
7	Professional Services Rates: Administrative Assistant	The authorized tasks for Administrative Assistant Professionals include: bookkeeping; invoice preparation; proofreading/editing; and some word processing, etc. Assume no per diem allowance.
8	Professional Services Rates: Word Processor (Computer Included)	The authorized tasks for Word Processing Professionals include: general clerical duties; word processing; documentation reproduction; report binding; filing; etc. Assume no per diem allowance.
9	Construction/Contracting Services Rates: Construction Field Supervisor	The authorized tasks for a Construction Field Supervisor include: supervision of all logistical matters including pre- and post-field planning and scheduling activities; supervises complex construction projects requiring multiple construction personnel. Assume no per diem allowance.
10	Construction/Contracting Services Rates: Skilled Labor	The authorized tasks for Skilled Laborers include: small equipment operation, as well as tasks typically performed by individuals in the general construction, welding, electrical, and plumbing trades. A skilled laborer may hold a specific license or certification for a particular skill or craft. Assume no per diem allowance.
11	Construction/Contracting Services Rates: Unskilled Labor	The authorized tasks for Unskilled Laborers include general manual labor task (for example a driller's helper). Assume no per diem allowance.
12	Construction/Contracting Services Rates: Equipment Operator (Average Rate To Operate A Standard Piece Of Equipment)	The authorized tasks for Equipment Operators include: operate heavy equipment including backhoes, dump trucks, excavators, loaders, and drill rigs (driller only), etc. Assume no per diem allowance.

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Personnel Rates – Mileage – Per Diem

13	Per Diem Requirement (# Miles Required)	The minimum (one-way) distance from the nearest applicable office to the site that a consultant/contractor must travel to be eligible for per diem.
14	Fieldwork Per Diem Without Overnight Stay	Fieldwork Per Diem Without Overnight Stay requires a minimum 10-hour field day and is applicable to <u>both</u> consultants and contractors.
15	Fieldwork Per Diem With Overnight Stay (Including Lodging)	Fieldwork Per Diem With Overnight Stay (Including Lodging) is applicable to hoth consultants and contractors. An overnight stay is appropriate when time and/or distance prevents a return home at the end of a work day.
16	Consultant Mileage Rate (single person)	Company owned vehicle mileage rate is \$1.84 / mile. Note: The dollar per mile (\$/mile) mileage rate may not be marked up on a company-owned vehicle. A rental price and additional mileage charges for a company-owned vehicle may be reimbursed if the total cost of both is less than the established mileage cost ceiling will allow. Note: Consultant travel time to be included in the \$/mile rate. Assume (1) individual at staff level rate.
17	Consultant Mileage Rate (two persons)	Company owned vehicle mileage rate is \$3.24 / mile. Note: The dollar per mile (\$/mile) mileage rate may not be marked up on a company-owned vehicle. A rental price and additional mileage charges for a company-owned vehicle may be reimbursed if the total cost of both is less than the established mileage cost ceiling will allow. Note: Consultant travel time to be included in the \$/mile rate. Assume (2) individuals, each at staff level rate.

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18	Contractor Mileage Rate (single person)	Company owned vehicle mileage rate is \$1.17 / mile. Note: The dollar per mile (\$/mile) mileage rate may not be marked up on a company-owned vehicle. A rental price and additional mileage charges for a company-owned vehicle may be reimbursed if the total cost of both is less than the established mileage cost ceiling will allow. Note: Contractor travel time is to be included in the \$/mile rate. Assume (1) individual at unskilled labor rate.
19	Contractor Mileage Rate (two person crew)	Company owned vehicle mileage rate is \$1.79 / mile. Note: The dollar per mile (\$/mile) mileage rate may not be marked up on a company-owned vehicle. A rental price and additional mileage charges for a company-owned vehicle may be reimbursed if the total cost of both is less than the established mileage cost ceiling will allow. Note: Contractor travel time to be included in the \$/mile rate. Assume (2) person crew, each at unskilled labor rate.

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	Field Activities		
20	Field Activity: Day Rate	A Day Rate (\$/Day) includes all activities and typical field equipment necessary to conduct a day's work in the field. This rate is independent of standard personnel rates and does not include project management unrelated to field activities associated with a specific day's activity. Additionally, this rate does not include mileage or per diem.	
21	Utility Locator Service, On-Site Cost	This task consists of the total on-site cost (\$/hour) for a contractor to conduct a sub-grade utility clearance survey. Assume no travel in this item.	
22	Active Soil Gas Surveys: (Half Day Rate)	This task consists of the total cost per half-day for an Active Soil Gas Survey (\$/Half Day). Assume typical site clean up.	
23	Active Soil Gas Surveys: (Daily Rate)	This task consists of the total cost per day for an Active Soil Gas Survey (\$/Day). Assume typical site clean up.	
24	Consultant Cost for Drilling and Site Characterization Activities: Make Ready/ Preparation Cost	This task consists of the total personnel, equipment, and material costs (\$/event) necessary for the following activities: preparation and loading of all appropriate equipment, materials and supplies for drilling and site characterization activities. Assume no travel time.	
25	Consultant Groundwater Sampling and Remedial Activities: Make Ready/ Preparation Cost	This task consists of the total personnel, equipment, and material costs (\$/event) necessary for the following activities: preparation and loading of all appropriate equipment, materials and supplies for groundwater sampling and remedial activities. Assume no travel time. Note: This is a one time charge per event.	
26	Groundwater Monitoring Sampling Fieldwork: 2-inch Well < 100 Feet (Compliance Sampling Methodology— PURGING IS REQUIRED)	This task consists of a dollar per well (\$/well) estimate to complete the following activities: periodic well purging and sampling; necessary purging and sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS required for sampling (i.e. compliance sampling). Assume no low yields. Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, instrumentation (pump, PID, pH/EC/Temperature/ Conductivity meter, mobile phone, etc.), sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.	
27	Groundwater Monitoring Sampling Fieldwork: 2" Well < 100 Feet (Investigative Methodology—PURGING IS NOT REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well sampling; necessary sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS NOT required for sampling (i.e. investigative sampling). Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.	
28	Groundwater Monitoring Sampling Fieldwork: 2" Well >= 100 Feet (Compliance Methodology PURGING IS REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well purging and sampling; necessary purging and sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS required for sampling (i.e. compliance sampling). Assume no low yields. Assume collection of static water level	

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		data is included in the periodic well sampling rate. This item includes all field time, instrumentation (pump, PID, pH/EC/Temperature/ Conductivity meter, mobile phone, etc.), sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
29	Groundwater Monitoring Sampling Fieldwork: 2" Well >= 100 Feet (Investigative Methodology—PURGING IS NOT REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well sampling; necessary sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS NOT required for sampling (i.e. investigative sampling). Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
30	Groundwater Monitoring Sampling Fieldwork: 4" Well < 100 Feet (Compliance Methodology PURGING IS REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well purging and sampling; necessary purging and sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS required for sampling (i.e. compliance sampling). Assume no low yields. Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, instrumentation (pump, PID, pH/EC/Temperature/ Conductivity meter, mobile phone, etc.), sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
31	Groundwater Monitoring Sampling Fieldwork: 4" Well < 100 Feet (Investigative Methodology—PURGING IS NOT REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well sampling; necessary sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS NOT required for sampling (i.e. investigative sampling). Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
32	Groundwater Monitoring Sampling Fieldwork: 4" Well >= 100 Feet (Compliance Methodology PURGING IS REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well purging and sampling; necessary purging and sampling equipment; samp le storage, preservation and delivery to the laboratory. Assume purging IS required for sampling (i.e. compliance sampling). Assume no low yields. Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, instrumentation (pump, PID, pH/EC/Temperature/ Conductivity meter, mobile phone, etc.), sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
33	Groundwater Monitoring Sampling Fieldwork: 4" Well >= 100 Feet (Investigative Methodology—PURGING IS NOT REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well sampling; necessary sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS NOT required for sampling (i.e. investigative sampling). Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment.

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		Fluid containment, transportation and disposal is not included.
34	Groundwater Monitoring Sampling Fieldwork: 6" Well < 100 Feet (Compliance Methodology PURGING IS REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well purging and sampling; necessary purging and sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS required for sampling (i.e. compliance sampling). Assume no low yields. Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, instrumentation (pump, PID, pH/EC/Temperature/ Conductivity meter, mobile phone, etc.), sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
35	Groundwater Monitoring Sampling Fieldwork: 6" Well < 100 Feet (Investigative Methodology—PURGING IS NOT REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well sampling; necessary sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS NOT required for sampling (i.e. investigative sampling). Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
36	Groundwater Monitoring Sampling Fieldwork: 6" Well >= 100 Feet (Compliance Methodology PURGING IS REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well purging and sampling; necessary purging and sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS required for sampling (i.e. compliance sampling). Assume no low yields. Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, instrumentation (pump, PID, pH/EC/Temperature/ Conductivity meter, mobile phone, etc.), sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
37	Groundwater Monitoring Sampling Fieldwork: 6" Well >= 100 Feet (Investigative Methodology—PURGING IS NOT REQUIRED)	This task consists of a total dollar per well (\$/well) estimate to complete the following activities: periodic well sampling; necessary sampling equipment; sample storage, preservation and delivery to the laboratory. Assume purging IS NOT required for sampling (i.e. investigative sampling). Assume collection of static water level data is included in the periodic well sampling rate. This item includes all field time, sampling equipment (bailers, rope, bottles, etc.), shipping costs for samples, and decontamination equipment. Fluid containment, transportation and disposal is not included.
38	Consultant Cost: Free Product/Fluid Level Monitoring	This task includes the total personnel, equipment, and material costs (\$/well) for on-site collection of periodic free product and/or groundwater elevation measurements.
39	Professional Survey of Groundwater Monitor Wells	This task consists of the total cost per well (\$/well) to establish a vertical elevation based at the top of casing in accordance with ADEQ LUST Site Characterization Guidance (Revised July, 1996). Assumes that a well-defined benchmark exists near the site and that a two-person survey crew will be used. This rate does not include travel.
40	Well Abandonment By Grouting, Make Ready/ Preparation Cost	This task consists of the total personnel, equipment, and material costs (\$/event) necessary for the following activities: preparation and loading of all appropriate equipment, materials and supplies, including support vehicles.

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		Assume no travel time. Note: This is a one time charge.
41	Well Abandonment By Grouting, Mob/Demob/Travel Cost	This task consists of the total personnel, equipment and material costs (\$/mile) necessary for the following activities: rig, support vehicle, and equipment decontamination; and travel to and from the site. Note: This is a one time charge and does not pertain to travel to and from the site on a daily basis.
42	Well Abandonment By Drill Out (From ground surface to a depth 20 feet bgs)	This task consists of the total personnel, equipment, and material costs (\$/well) necessary for well abandonment by drilling out the top 20 feet of well casing. This rate does not include costs to grout the well, or material handling and disposal. Assume no mob/demob or travel time.
43	Well Abandonment By Grouting, Well Diameter <= 2-inch	This task consists of the total cost per foot (\$/foot) per well for well abandonment and to conduct necessary site clean-up. Assume no mob/demob or travel time. Grouting costs do not include removal or drilling out of casing.
44	Well Abandonment By Grouting, Well Diameter > 2-inch to <= 4-inch	This task consists of the total cost per foot (\$/foot) per well for well abandonment and to conduct necessary site clean-up. Assume no mob/demob or travel time. Grouting costs do not include removal or drilling out of casing.
45	Well Abandonment By Grouting, Well Diameter > 4-inch	This task consists of the total cost per foot (\$/foot) per well for well abandonment. Assume no mob/demob or travel time. Grouting costs do not include removal or drilling out of casing.
46	Well Abandonment By Grouting, (3) 2-inch nested wells in one 7-inch diameter borehole.	This task consists of the total cost per foot (\$/foot) per well for well abandonment. Assume no mob/demob or travel time. Grouting costs do not include removal or drilling out of casing.
47	Consultant Cost: Remediation System Start-Up, Operation and Maintenance (\$/visit)	This activity consists of the total personnel, equipment, and material costs required for remedial system start-up, operation and maintenance on a per site visit basis. Assume no travel and per diem costs.
	Drilling Related Ac	etivities – Soil Boring & Abandonment
48	Contractor Cost: Soil Boring And Sampling Make Ready/ Preparation Cost: Hollow Stem Auger	This task consists of the total personnel, equipment and material costs (\$/event) for the following activities: preparation and loading of all appropriate equipment, materials, and supplies, including support vehicles. Assume no travel time. Note: this is a one-time charge per job.
49	Contractor Cost: Soil Boring And Sampling Make Ready/ Preparation Cost: All Other Rig Types	This task consists of the total personnel, equipment and material costs (\$/event) for the following activities: preparation and loading of all appropriate equipment, materials, and supplies, including support vehicles. Assume no travel time. Note: this is a one-time charge per job.
50	Contractor Cost: Soil Boring And Sampling Mob/Demob/Travel Cost: Hollow Stem Auger	This task consists of the total personnel, equipment and material costs (\$/mile) necessary for the following activities: rig, support vehicle, and equipment decontamination; and travel to and from the site. Note: This is a one-time charge per job and does not pertain to drill crew travel on a daily basis.
51	Contractor Cost: Soil Boring And Sampling Mob/Demob/Travel Cost: All Other Rig Types	This task consists of the total personnel, equipment and material costs (\$/mile) necessary for the following activities: rig, support vehicle, and equipment decontamination; and travel to and from the site. Note: This is a one-time charge per job and does not pertain to drill crew travel on a daily basis.

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52	Contractor Cost: Soil Boring And Sampling, Hollow Stem Auger, <= 50 Feet Below Ground Surface bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for th following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaner pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. The item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths less then are assual to 50 feet has
53	Contractor Cost: Soil Boring And Sampling, Hollow Stem Auger, 51 to 100 Feet bgs	footages drilled at depths less than or equal to 50 feet bgs. This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths greater than 50 feet bgs and less than or equal to 100 feet bgs.
54	Contractor Cost: Soil Boring And Sampling, Hollow Stem Auger, > 100 Feet bgs.	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. The item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL

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		footages drilled at depths greater than 100 feet bgs.
55	Contractor Cost: Soil Boring And Sampling, Air Rotary, <= 50 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths less than or equal to 50 feet bgs.
56	Contractor Cost: Soil Boring And Sampling, Air Rotary, 51 to 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths greater than 50 feet bgs and less than or equal to 100 feet bgs.
57	Contractor Cost: Soil Boring And Sampling, Air Rotary, > 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or

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		concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths greater than 100 feet bgs.
58	Contractor Cost: Soil Boring And Sampling, Rotosonic Rig, <= 50 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths less than or equal to 50 feet bgs.
59	Contractor Cost: Soil Boring And Sampling, Rotosonic Rig, 51 to 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths greater than 50 feet bgs and less than or equal to 100 feet bgs.
60	Contractor Cost: Soil Boring And Sampling, Rotosonic Rig, > 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling

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		with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths greater than 100 feet bgs.
61	Contractor Cost: Soil Boring And Sampling, Dual Wall Percussion Rig, <= 50 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths less than or equal to 50 feet bgs.
62	Contractor Cost: Soil Boring And Sampling, Dual Wall Percussion Rig, 51 to 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths greater than 50 feet bgs or equal to or less than 100 feet bgs.
63	Contractor Cost: Soil Boring And Sampling, Dual Wall Percussion Rig, > 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per vertical boring for the following activities performed according to ASTM Standards: drilling; typical sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or

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		disposal. These costs do not include angle drilling, limited-access drilling with non-standard rig configurations, mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: This item applies to ALL footages drilled at depths greater than 100 feet bgs.
64	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Hollow-Stem Auger, <= 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths less than or equal to 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical.
65	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Hollow-Stem Auger, > 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths greater than 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical.
66	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Air Rotary Rig, <= 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or

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		disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths less than or equal to 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical.
67	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Air Rotary Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths greater than 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical.
68	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Rotosonic Rig, <= 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths less than or equal to 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical.
69	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Rotosonic Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or

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		disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths greater than 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical.
70	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Dual Wall Percussion Rig, <= 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths less than or equal to 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical.
71	Contractor Cost: Soil Boring and Sampling, Angle Drilling for Dual Wall Percussion Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per angle boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. This item applies to footage drilled at depths greater than 100 feet bgs. Note: assume angle drilling up to 45 degrees with respect to the vertical
72	Contractor Cost: Soil Boring and Sampling, Limited Access Drilling for Hollow-Stem Auger, <= 100 Feet	This task consists of the total cost per foot (\$/foot) per boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or

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		disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: this item applies to ALL footage drilled at depths less than or equal to 100 feet.
73	Contractor Cost: Soil Boring and Sampling, Limited Access Drilling for Hollow-Stem Auger, > 100 Feet	This task consists of the total cost per foot (\$/foot) per boring for the following activities performed according to ASTM Standards: drilling; sampling at approximate 5 foot intervals; temporarily stockpiling soil on plastic sheeting; site clean-up; moving between boreholes; brass sleeves, and associated sample preservation material; drilling consumables/bits; decontamination equipment; and any necessary drilling contractor support equipment. Necessary drilling contractor support equipment includes: drill rig, support trucks, and decontamination equipment including steam cleaners, pressure washers, decontamination-trailers; containment materials for decontamination residuals such as plastic sheeting, and berm materials. This item does not include soil/groundwater (i.e., drill cuttings and development water) containment in either drums or a roll-off bin, transportation, and/or disposal. Costs also should not consider mob/demob, travel, standby time or concrete/asphalt coring and replacement. Note: this item applies to ALL footage drilled at depths greater than 100 feet bgs.
74	Contractor Standby Rate, Hollow Stem Auger	This task consists of the hourly standby rate (\$/hour) for a hollow stem auger. Rates are reimbursable for downtime due to circumstances beyond the contractor's control (i.e., waiting on laboratory results and consultant discussions). Note: This item does not include downtime resulting from mechanical failures.
75	Contractor Standby Rate, ALL OTHER RIGS	This task consists of the hourly standby rate (\$/hour) for all other rig types. Rates are reimbursable for downtime due to circumstances beyond the contractor's control (i.e., waiting on laboratory results and consultant discussions). Note: This item does not include downtime resulting from mechanical failures.
76	Soil Boring Abandonment by Grout: Contractor Cost, All Boring Diamaters	This task consists of the total cost per foot (\$/foot) per boring for the labor and materials associated with the abandonment of soil borings by grouting. Assume no mob/demob or mileage.
77	Contractor Cost: Concrete Coring and Replacement	This task consists of the cost per boring (\$/boring) for concrete coring and replacement. This task is only associated with the bore hole and does not include repairs or replacement of surface pavement otherwise damaged during drilling.
78	Contractor Cost: Concrete Replacement	This task consist of the total cost per square foot (\$/S.F.) to sawcut, remove, and replace concrete damaged adjacent to the borehole during drilling or damaged during remedial system installation. This item includes loading, transportation and disposal of construction debris.
79	Contractor Cost: Asphalt Coring and Replacement	This task consists of the total cost per boring (\$/boring) for asphalt coring and replacement. This task is only associated with the bore hole and does not include repairs or replacement of surface pavement otherwise damaged during drilling.
80	Contractor Cost: Asphalt Replacement	This task consist of the total cost per square foot (\$/S.F.) to sawcut, remove, and replace asphalt damaged adjacent to the borehole during drilling or damaged during remedial system installation. This item includes loading, transportation and disposal of construction debris.

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	Drilling Related Activities – Well Installation & Abandonment		
81	Installation Of 2" Wells By Hollow Stem Auger, <= 50 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, (stockpile of soil on visqueen), transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]	
82	Installation Of 2" Wells By Hollow Stem Auger, 51 to 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, (stockpile of soil on visqueen), transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet bgs or less than or equal to 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]	
83	Installation Of 2" Wells By Hollow Stem Auger, > 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, (stockpile of soil on visqueen), transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval	
84	Installation Of 2" Wells By Air Rotary Rig, <= 50 Feet bgs.	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling	

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85	Installation Of 2" Wells By Air Rotary Rig, 51 to 100 Feet bgs	equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval] This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate.
		This item applies to ALL well footage drilled and installed at depths greater than 50 feet bgs or less than or equal to 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
86	Installation Of 2" Wells By Air Rotary Rig, > 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
87	Installation Of 2" Wells By Rotosonic Rig, <= 50 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate.

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		This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
88	Installation Of 2" Wells By Rotosonic Rig, 51 to 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet bgs or less than or equal to 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
89	Installation Of 2" Wells By Rotosonic Rig, > 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen internal]
90	Installation Of 2" Wells By Dual Wall Percussion Rig , <= 50 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
91	Installation Of 2" Wells Bv Dual Wall	This task consists of the total cost per foot (\$/foot) per well for the following

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	Percussion Rig , 51 to 100 Feet bgs	items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet bgs or less than or equal to 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
02	Installation Of 2" Walls Dry Dual Wall	* * *
92	Installation Of 2" Wells By Dual Wall Percussion Rig, > 100 Feet bgs	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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93	Installation Of 4" Wells By Hollow Stem Auger, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet bgs. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
94	Installation Of 4" Wells By Hollow Stem Auger, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
95	Installation Of 4" Wells By Hollow Stem Auger, > 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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96	Installation Of 4" Wells By Air Rotary Rig, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen
97	Installation Of 4" Wells By Air Rotary Rig, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping
98	Installation Of 4" Wells By Air Rotary Rig, > 100 Feet	and 30 feet of screen interval] This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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99	Installation Of 4" Wells By Rotosonic Rig, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
100	Installation Of 4" Wells By Rotosonic Rig, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
101	Installation Of 4" Wells By Rotosonic Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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102	Installation Of 4" Wells By Dual Wall Percussion Rig, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
103	Installation of 4" Wells By Dual Wall Percussion Rig, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
104	Installation Of 4" Wells By Dual Wall Percussion Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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105	Installation Of 6" Wells By Hollow Stem Auger, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
106	Installation Of 6" Wells By Hollow Stem Auger, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
107	Installation Of 6" Wells By Hollow Stem Auger, > 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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108	Installation Of 6" Wells By Air Rotary Rig, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
109	Installation Of 6" Wells By Air Rotary Rig, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
110	Installation Of 6" Wells By Air Rotary Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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111	Installation Of 6" Wells By Rotosonic Rig, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample
		preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
112	Installation Of 6" Wells By Rotosonic Rig, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on vis queen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
113	Installation Of 6" Wells By Rotosonic Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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114	Installation Of 6" Wells By Dual Wall Percussion Rig, <= 50 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths less than or equal to 50 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
115	Installation Of 6" Wells By Dual Wall Percussion Rig, 51 to 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 50 feet or less than or equal to 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]
116	Installation Of 6" Wells By Dual Wall Percussion Rig, > 100 Feet	This task consists of the total cost per foot (\$/foot) per well for the following items/activities: drill rig support vehicles and crew; soil sampling at approximate 5 foot intervals; decontamination procedures; sampling equipment; moving between wells; brass sleeves and associated sample preservation materials; drilling consumables/bits; well installation; well materials. Surface completion is not included in the per foot costs for drilling and well installation. Storage, stockpile of soil on visqueen, transportation and disposal of drill cuttings, decontaminate rinsate, and additional investigation-derived fluids is not included in the well installation item rate. This item applies to ALL well footage drilled and installed at depths greater than 100 feet. Assume no concrete coring, no restricted access, no nested well configuration, no mob/demob or travel. [When calculating costs for a typical site, assume schedule 40 PVC piping and 30 feet of screen interval]

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117	Monitor Well Surface Completion Contractor Cost: Access Manhole <= 12"	This task consists of the total personnel, equipment and material costs (\$/well) required to install a 3 foot square or less concrete pad with traffic rated (flush) manhole/vault in accordance with applicable ASTM standards. Assume no sawcutting, mob/demob or travel.
118	Monitor Well Surface Completion Contractor Cost: Access Manhole > 12" To <= 24"	This task consists of the total personnel, equipment and material costs (\$/well) required to install a 3 foot square or less concrete pad with traffic rated (flush) manhole/vault in accordance with applicable ASTM standards. Assume no sawcutting, mob/demob or travel.
119	Contractor Cost - Well Development: Mob/Demob/Travel Cost	This task consists of the total personnel, equipment, and material costs (\$/mile) for support vehicle, equipment decontamination, and travel time to and from site. This activity does not include storage, transportation, and disposal of investigative-derived waste.
120	Well Development Contractor Cost Scenario 1: 2" Well Development Cost < 100 Feet	This task consists of the total personnel, equipment, and material costs (\$/well) required to develop a newly installed monitoring well in accordance with the current published ADEQ Quality Assurance Plan and includes all appropriate surface and downhole equipment, field instrumentation, and decontamination equipment. Assume no low yield wells, no mob/demob/travel, typical site clean-up, and no consultant supervision cost. This task does not pertain to purging associated with quarterly groundwater monitoring. Note: Containment, storage, transportation and disposal of investigation-derived waste is not included.
121	Well Development Contractor Cost Scenario 1: 2" Well Development Cost, >= 100 Feet	This task consists of the total personnel, equipment, and material costs (\$/well) required to develop a newly installed monitoring well in accordance with the current published ADEQ Quality Assurance Plan and includes all appropriate surface and downhole equipment, field instrumentation, and decontamination equipment. Assume no low yield wells, no mob/demob/travel, typical site clean-up, and no consultant supervision cost. This task does not pertain to purging associated with quarterly groundwater monitoring. Note: Containment, storage, transportation and disposal of investigation-derived waste is not included.
122	Well Development Contractor Cost Scenario 2: 4" Well Development Cost, < 100 Feet	This task consists of the total personnel, equipment, and material costs (\$/well) required to develop a newly installed monitoring well in accordance with the current published ADEQ Quality Assurance Plan and includes all appropriate surface and downhole equipment, field instrumentation, and decontamination equipment. Assume no low yield wells, no mob/demob/travel, typical site clean-up, and no consultant supervision cost. This task does not pertain to purging associated with quarterly groundwater monitoring. Note: Containment, storage, transportation and disposal of investigation-derived waste is not included.
123	Well Development Contractor Cost Scenario 2: 4" Well Development Cost >= 100 Feet	This task consists of the total personnel, equipment, and material costs (\$/well) required to develop a newly installed monitoring well in accordance with the current published ADEQ Quality Assurance Plan and includes all appropriate surface and downhole equipment, field instrumentation, and decontamination equipment. Assume no low yield wells, no mob/demob/travel, typical site clean-up, and no consultant supervision cost. This task does not pertain to purging associated with quarterly groundwater monitoring. Note: Containment, storage, transportation and disposal of

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		investigation-derived waste is not included.	
124	Well Development Contractor Cost Scenario 3: 6" Well Development Cost, < 100 Feet Well Development Contractor Cost Scenario 3: 6" Well Development Cost,	This task consists of the total personnel, equipment, and material costs (\$/well) required to develop a newly installed monitoring well in accordance with the current published ADEQ Quality Assurance Plan and includes all appropriate surface and downhole equipment, field instrumentation, and decontamination equipment. Assume no low yield wells, no mob/demob/travel, typical site clean-up, and no consultant supervision cost. This task does not pertain to purging associated with quarterly groundwater monitoring. Note: Containment, storage, transportation and disposal of investigation-derived waste is not included. This task consists of the total personnel, equipment, and material costs (\$/well) required to develop a newly installed monitoring well in accordance	
	>= 100 feet.	with the current published ADEQ Quality Assurance Plan and includes all appropriate surface and downhole equipment, field instrumentation, and decontamination equipment. Assume no low yield wells, mob/demob/travel, typical site clean up, and no consultant supervision cost. This task does not pertain to purging associated with quarterly groundwater monitoring. Note: Containment, storage, transportation and disposal of investigation-derived waste is not included.	
Pilot Testing			
126	Aquifer Testing: Pump Test	This task consists of the total personnel, aquifer test equipment, and material cost (\$/event) required to conduct an 8-hour pump test. Cost includes field supervision, project logistics, data logging, collection of samples, data analysis, compilation, and report preparation. Does not include containerization, transportation, and disposal of test-derived waste.	
127	Aquifer Testing: Slug Test	This task consists of the total personnel, aquifer test equipment, and material cost (\$/event) required to conduct a slug test. Cost includes field supervision, project logistics, data logging, collection of samples, data analysis, data compilation, and report preparation.	
128	Pilot Testing: Soil Vapor Extraction (SVE)	This task consists of the total personnel, SVE test equipment, and material costs (\$/event) required to conduct an 8-hour (multiple stepped) soil vapor extraction pilot test. Cost assumes one test utilizing one central vapor extraction well and up to five lateral monitoring points. Cost includes field supervision, project logistics, data logging, collection of vapor samples, data analysis, data compilation and report preparation. Cost does not include well installation, containerization, transportation or disposal of test-derived waste.	
129	Pilot Testing: SVE / Air Sparge Pilot Testing: Bioventing/Respiration	This task consists of the total personnel, SVE and Air Sparge test equipment, and material costs (\$/event) required to conduct a 10-hour (multiple stepped) combination SVE and Air Sparge pilot test. Cost assumes utilization of one central vapor extraction well and one air sparge well and up to five lateral monitoring points. Cost includes field supervision, project logistics, data logging, collection of vapor and groundwater samples, data analysis, data compilation, and report preparation. Does not include containerization, transportation or disposal of test-derived waste. This task consists of the total personnel, bioventing pilot test equipment,	

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		and material costs (\$/event) required to conduct an 8-hour (multiple stepped) air injection pilot test and follow up respiration monitoring. Cost assumes one test utilizing one central air injection well and up to five lateral monitoring points. Cost further assumes an additional three day follow-up period for respiration monitoring (one two-hour respiration monitoring period per day). Cost includes field supervision, project logistics, data recording, collection of vapor samples, data analysis, data compilation, and report preparation. Does not include well installation or containerization, transportation or disposal of test-derived waste.
		Remedial Activities
131	Backfill and Compaction Excavation Costs	This task consists of the total price per ton (\$/ton) for the following item: total personnel and equipment costs necessary to backfill and compact a remedial excavation. This item includes all mob/demob of personnel and equipment. This task assumes the use of import backfill material and includes density testing and reporting.
{PRI VAT E }132	Bulk Soil Excavation (Contaminated Soil), All Tonnages	This task consists of the total price per ton (\$/ton) for the following item: Bulk Soil Excavation (Contaminated Soil) for all Tonnage. Assume no trenching around utility lines and/or building foundations. This task does not pertain to drummed soil nor any discreet excavation.
133	Bulk Soil Transportation (Includes Loading, and Hauling Distances Up To 250 Miles Round Trip), All Tonnages	This task consists of the total price per ton (\$/ton) for the following item: Bulk soil transportation of contaminated soil, clean soil, or imported backfill [All Tonnages]. This item also assumes loading of non-containerized bulk soil and travel up to 250 miles round trip.
134	Landfill Disposal of Petroleum Contaminated Soil (PCS)	This task consists of the total price per ton (\$/ton) for landfill disposal of PCS at a properly permitted landfill facility. Does not include mob/demob or transportation costs for equipment and/or personnel.
135	Thermal Remediation of PCS (Ex-Situ, On-Site, Portable Facility)	This task consists of the total price per ton (\$/ton) for the following activity: On-site, ex-situ thermal remediation of PCS using a permitted portable facility.
136	Thermal Remediation of PCS (Ex-Situ, Off-Site, Fixed Facility)	For quantities greater than 40 tons, this task consists of the total price per ton (\$/ton) for the following activity: Off-site, ex-situ thermal remediation of PCS using a permitted fixed facility.
137	Bioremediation of PCS (Off-Site, Fixed Facility)	This task consists of the total price per ton (\$/ton) for the following item: Off-site, ex-situ bioremediation of PCS at permitted fixed facility. Does not apply to on-site portable bioremediation facility.
138	Pre-Built Remedial Engineering Design	This task consists of the total personnel, equipment, and material costs (\$/design) necessary to complete Pre-Built Remedial Engineering Design Package. At a minimum, the design package should include all subgrade and surface component specifications, site plans and construction details. Note: This item only pertains to design packages prepared following CAP approval to obtain construction estimates and permits.
139	VES System with Vapor Phase Carbon (10 to 100 cfm)	Equipment Rental: Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and vapor phase carbon treatment vessel(s) that can hold up to

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140	VES System with Vapor Phase Carbon (10 to 100 cfm)	1,000 pounds of carbon. System to include appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Does not include cost of utilities to operate the system and does not include the cost of carbon or carbon regeneration. Equipment Rental: Equipment rental (\$/mo nth) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and vapor phase carbon treatment vessel(s) that can hold hetween 1,001 to 2,000 pounds of carbon. System to include appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Does not include cost of utilities to operate the system and does not include the cost of carbon or carbon regeneration.
141	Bioventing System (10 to 70 cfm)	Equipment Rental: Equipment rental (\$/month) to include bioventing and necessary equipment to supply up to 70 cfm airflow into impacted soil. Equipment to include blower with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting specifications and/or regulatory requirements. Does not include cost of utilities to operate the system.
		Equipment Rental
		<u> </u>
142	Equipment Rental: Decon Equipment (Buckets/Brushes/Detergent)	Equipment Rental: Daily rate (\$/day) for Decon Equipment including Buckets/Brushes/Detergent etc.
143	Equipment Rental: Manual-Operated Hand Auger Sampling Kit (Hand Auger/Brass Sleeves)	Equipment Rental: Daily rate (\$/day) for Manual-Operated Hand Auger and Sampling Kit (Hand Auger, Brass Sleeves, etc.).
144	Equipment Rental: Slide Hammer Core Sampler	Equipment Rental: Daily rate (\$/day) for Slide Hammer Core Sampler.
145	Equipment Rental: Photoionization Detector	Equipment Rental: Daily rate (\$/day) for Photoionization Detector (PID).
146	Equipment Rental: Flame Ionization Detector (FID)	Equipment Rental: Daily rate (\$/day) for Flame Ionization Detector (FID).
147	Equipment Rental: LEL/02 Meter	Equipment Rental: Daily rate (\$/day) for LEL/02 Meter.
148	Equipment Rental: pH, temperature and conductivity meter	Equipment Rental: Daily rate (\$/day) for pH, temperature and conductivity meter.
149	Equipment Rental: Dissolved Oxygen Meter	Equipment Rental: Daily rate (\$/day) for Dissolved Oxygen Meter.
150	Equipment Rental: 2-inch Environmental Submersible Pump	Equipment Rental: Daily rate (\$/day) for a 2-inch environmental submersible pump; includes all ancillary equipment other than a generator.
151	Equipment Rental: 4-inch Environmental Submersible Pump	Equipment Rental: Daily rate (\$/day) for a 4-inch environmental submersible pump; includes all ancillary equipment other than a generator.
152	Equipment Rental: Vapor Sample Kit	Equipment Rental: Daily rate (\$/day) for a Vapor Sample Kit This refers to instrumentation and pump only.
153	Equipment Rental: Portable Vapor Extraction System (VES) Pilot Test Unit	Equipment Rental: Daily rate (\$/day) for a Portable VES Pilot Test Unit; includes all ancillary equipment (other than a generator) and permitting fees if applicable.
154	Equipment Rental: Portable Generator, <=	Equipment Rental: Daily rate (\$/day) for a Portable Generator, <= 5 kW.

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	5 kW	
155	Equipment Rental: Portable Generator, 5kW < Generator <= 10 kW	Equipment Rental: Daily rate (\$/day) for a Portable Generator, 5kW < Generator <= 10 kW.
156	Equipment Rental: Steam Cleaner/Pressure Washer	Equipment Rental: Daily rate (\$/day) for a Steam Cleaner/Pressure Washer.
157	Equipment Rental: Water Level Indicator	Equipment Rental: Daily rate (\$/day) for a Water Level Indicator which includes either an electrical or mechanical device.
158	Equipment Rental: Oil/Water Interface Probe	Equipment Rental: Daily rate (\$/day) for an Oil/Water Interface Probe.
159	Equipment Rental: Bailer Rental	Equipment Rental: Daily rate (\$/day) for non-disposable bailer.
160	Equipment Cost: Disposable Bailer	Equipment Cost: Total cost per bailer (\$/bailer) for a disposable bailer.
161	Equipment Cost: 50-Gallon, DOT- approved, Drum (new)	Equipment Cost: Total cost per drum (\$/drum) for a 50-Gallon, DOT-approved, Drum (new).
162	Equipment Cost: 50-Gallon, DOT- approved, Drum (reconditioned)	Equipment Cost: Total cost per drum (\$/drum) for a 50-Gallon, DOT-approved, Drum (reconditioned)
163	Equipment Rental: Anemometer	Equipment Rental: Daily rate (\$/day) for an Anemometer
164	Equipment Rental: CO ₂ Meter	Equipment Rental: Daily rate (\$/day) for field equipment used to measure carbon dioxide (CO ₂)
165	Equipment Rental: VES System with Thermal Oxidizer (100 cfm)	Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and thermal oxidizer with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Cost includes a chart recorder capable of recording on a weekly or monthly basis. Does not include cost of utilities to operate the system.
166	Equipment Rental: VES System with Thermal Oxidizer (250 cfm)	Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and thermal oxidizer with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Cost includes a chart recorder capable of recording on a weekly or monthly basis. Does not include cost of utilities to operate the system.
167	Equipment Rental: VES System with Thermal Oxidizer (500 cfm)	Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and thermal oxidizer with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Cost includes a chart recorder capable of recording on a weekly or monthly basis. Does not include cost of utilities to operate the system.
168	Equipment Rental: VES System with Thermal Oxidizer (750 cfm)	Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and thermal oxidizer with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Cost includes a chart recorder capable of recording on a weekly or monthly basis. Does not include cost of utilities to operate the system.

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169	Equipment Rental: VES System with Catalytic Oxidizer (100 cfm)	Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and catalytic oxidizer with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Cost includes a chart recorder capable of recording on a weekly or monthly basis. Does not include cost of utilities to operate the system.
170	Equipment Rental: VES System with Catalytic Oxidizer (250 cfm)	Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and catalytic oxidizer with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Cost includes a chart recorder capable of recording on a weekly or monthly basis. Does not include cost of utilities to operate the system.
171	Equipment Rental: VES System with Catalytic Oxidizer (500 cfm)	Equipment rental (\$/month) to include skid or trailer mounted vapor extraction equipment including vacuum blower and water knockout, and catalytic oxidizer with appropriate gauges and equipment necessary to monitor system effectiveness and meet appropriate permitting (and other) regulatory requirements. Cost includes a chart recorder capable of recording on a weekly or monthly basis. Does not include cost of utilities to operate the system.
172	Equipment Rental: Incremental cost for Air Sparge System (up to 100 cfm and 13 to 100 psi) over and above base SVE System	Equipment Rental: Equipment rental (\$/month) to include skid mounted air sparge system including positive displacement blower to generate up to 100 cfm flow rate and between 13 and 100 psi, and appropriate gauges and control panel. Does not include cost of utilities to operate the system.
173	Equipment Rental: Blower, 160 CFM	Equipment Rental: \$/month for a blower. 160 CFM
174	Equipment Rental: Blower, 280 CFM	Equipment Rental: \$/month for a blower. 280 CFM
175	Equipment Rental: Passive Free Product Skimming Device	Equipment Rental: Daily Rate (\$/day) for a Passive Free Product Removal Device.

{PRIVATE }Laboratory Analysis

	Organic Analysis		
176	LAB ANALYSIS: Total Petroleum Hydrocarbons (TPH) by 418.1 AZ (Soil Only)	LAB ANALYSIS (\$/test): Total Petroleum Hydrocarbons (TPH) by ADHS Method 418.1 AZ using an ADHS-certified laboratory (Soil Only).	
177	LAB ANALYSIS: TPH by ADHS Method 8015AZ (C6 – C10 gro) (Soil Only)	LAB ANALYSIS (\$/test): TPH by ADHS Method 8015AZ (C6 – C10 gro) using an ADHS-certified laboratory (Soil Only)	
178	LAB ANALYSIS: TPH by ADHS Method 8015AZ (C10 - C32 dro-oro) (Soil Only)	LAB ANALYSIS (\$/test): TPH by ADHS Method 8015AZ (C10 – C32 dro-oro) using an ADHS-certified laboratory (Soil Only)	
179	LAB ANALYSIS: TPH by EPA Method 8015 (modified) / (C6 - C10) (Air Only)	LAB ANALYSIS (\$/test): TPH by EPA Method 8015 (modified)/ (C6-C10) (Air Only)	
180	LAB ANALYSIS: TPH (C6-C10) /BTEX by Method 8015AZ/8021 (Soil Only)	LAB ANALYSIS (\$/test): TPH (C6-C10)/BTEX by ADHS Method 8015AZ/EPA 8021 using an ADHS-certified laboratory (Soil Only)	

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181	LAB ANALYSIS: TPH (C6-C10) /BTEX by Method 8015 (modified)/8021 (Air Only)	LAB ANALYSIS (\$/test): TPH (C6-C10)/BTEX by EPA Method 8015 (modified) /8021 (Air Only)
182	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8021 (Soil Only)	LAB ANALYSIS (\$/test): BTEX by EPA Method 8021 using an ADHS-certified laboratory (Soil Only)
183	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8260 (Soil Only)	LAB ANALYSIS (\$/test): Aromatic VOCs (BTEX) by EPA Method 8260 using ADHS-certified laboratory (Soil Only)
184	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8021 (GW Only)	LAB ANALYSIS: (\$/test): Aromatic VOCs (BTEX) by EPA 8021 using an ADHS-certified laboratory (GW Only)
185	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8260 (GW)	LAB ANALYSIS (\$/test): Aromatic VOCs (BTEX) by EPA Method 8260 using an ADHS-certified laboratory (GW Only)
186	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8021 (Air Only)	LAB ANALYSIS (\$/test): Aromatic VOCs (BTEX) by EPA Method 8021 (Air Only)
187	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8260 (Air Only)	LAB ANALYSIS (\$/test): Aromatic VOCs (BTEX) by EPA Method 8260 (Air Only)
188	LAB ANALYSIS: Method 8021AZ; Halogenated VOCs Only (Soil Only)	LAB ANALYSIS (\$/test): Halogenated VOCs by EPA Method 8021; Arizona target compounds using an ADHS-certified laboratory (Soil Only)
189	LAB ANALYSIS: Method 8260AZ; Halogenated VOCs (Soil Only)	LAB ANALYSIS (\$/test): Halogenated VOCs by EPA Method 8260; Arizona target compounds using an ADHS-certified laboratory (Soil Only)
190	LAB ANALYSIS: Method 8021AZ; Halogenated VOCs Only (Air Only)	LAB ANALYSIS (\$/test): Halogenated VOCs by EPA Method 8021; Arizona target compounds using an ADHS-certified laboratory (Air Only)
191	LAB ANALYSIS: Method 8260AZ; Halogenated Arizona VOC target compounds only (Air Only)	LAB ANALYSIS (\$/test): Halogenated VOCs by EPA Method 8260; Arizona target compounds (Air Only)
192	LAB ANALYSIS: Method 8021AZ; Halogenated VOCs Only (GW Only)	LAB ANALYSIS (\$/test): Halogenated VOCs by EPA Method 8021 for Arizona target compounds using an ADHS-certified laboratory (GW)
193	LAB ANALYSIS: Method 8260AZ; Halogenated Arizona VOC target compounds only (GW Only)	LAB ANALYSIS (\$/test): Halogenated VOCs by EPA Method 8260 for Arizona target compounds using an ADHS-certified laboratory (GW Only)
194	LAB ANALYSIS: Method 8021AZ; (GW Only)	LAB ANALYSIS (\$/test): EPA Method 8021; Arizona target compounds using an ADHS-certified laboratory (GW Only)
195	LAB ANALYSIS: Method 8021AZ; (Soil Only)	LAB ANALYSIS (\$/test): EPA Method 8021; Arizona target compounds using an ADHS-certified laboratory (Soil Only)
196	LAB ANALYSIS: Method 8260AZ; (GW Only)	LAB ANALYSIS (\$/test): EPA Method 8260; Arizona target compounds using an ADHS-certified laboratory (GW Only).
197	LAB ANALYSIS: Method 8260AZ; (Soil Only)	LAB ANALYSIS (\$/test):) EPA Method 8260; Arizona target compounds using an ADHS-certified laboratory (Soil Only).
198	LAB ANALYSIS: Lead by an approved SW846 EPA Method (Soil Only)	LAB ANALYSIS (\$/test): Lead by an approved SW846 EPA Method using an ADHS-certified laboratory (Soil Only).
199	LAB ANALYSIS: Full List Volatile Organics by EPA Method 8021 (Soil)	LAB ANALYSIS (\$/test): Full List (ADEQ) Volatile Organics by EPA Method 8021 using an ADHS-certified laboratory (Soil Only).
200	LAB ANALYSIS: Full List Volatile Organics by EPA Method 8260 (Soil)	LAB ANALYSIS (\$/test): Full List (ADEQ) Volatile Organics by EPA Method 8260 using an ADHS-certified laboratory (Soil Only)
201	LAB ANALYSIS: Full List Volatile Organics by EPA Method 8021 (GW)	LAB ANALYSIS (\$/test): Full List (ADEQ) Volatile Organics by EPA Method 8021 using an ADHS-certified laboratory (GW Only).
202	LAB ANALYSIS: Full List Volatile	LAB ANALYSIS (\$/test): Full List (ADEO) Volatile Organics by EPA

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	Organics by EPA Method 8260 (GW)	Method 8260 using an ADHS-certified laboratory (GW Only).
203	LAB ANALYSIS: Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 (Soil Only)	LAB ANALYSIS (\$/test): Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 using an ADHS-certified laboratory (Soil Only).
204	LAB ANALYSIS: Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 (GW Only)	LAB ANALYSIS (\$/test): Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 using an ADHS-certified laboratory (GW Only).
205	LAB ANALYSIS: Semi-Volatile Organics by EPA Method 8270 (Soil Only)	LAB ANALYSIS (\$/test): Semi-Volatile Organics by EPA Method 8270 using an ADHS-certified laboratory (Soil Only)
206	LAB ANALYSIS: Semi-Volatile Organics by EPA Method 8270 (GW Only)	LAB ANALYSIS (\$/test): Semi-Volatile Organics by EPA Method 8270 using an ADHS-certified laboratory (GW Only)
207	LAB ANALYSIS: Semi-Volatile Organics (PAHs) by EPA 8270 (Soil Only)	LAB ANALYSIS (\$/test): Semi-Volatile Organics (PAHs) by EPA Method 8270 using an ADHS-certified laboratory (Soil Only)
208	LAB ANALYSIS: Semi-Volatile Organics (PAHs) by EPA Method 8270 (GW Only)	LAB ANALYSIS (\$/test): Semi-Volatile Organics (PAHs) by EPA Method 8270 using an ADHS-certified laboratory (GW Only)
209	LAB ANALYSIS: VOCs by GCMS for confirmation analysis	LAB ANALYSIS (\$/test): VOCs by GCMS for confirmation analysis using an ADHS-certified laboratory
	Waste	e Characterization Analysis
210	LAB ANALYSIS: Total Petroleum Hydrocarbons (TPH) by EPA Method 418.1 (GW only)—FOR WASTE CHARACTERIZATION AND PERMIT REQUIREMENT PURPOSES ONLY	LAB ANALYSIS (\$/test): Total Petroleum Hydrocarbons (TPH) by EPA Method 418.1 using an ADHS-certified laboratory (GW only)—for waste characterization and permit requirement purposes only. Note: This test is not to be used for UST regulatory purposes such as groundwater monitoring.
211	LAB ANALYSIS: TCLP Extraction Lead (Pb) Analysis by EPA Method 1311 and the appropriate SW846 EPA Method.	LAB ANALYSIS (\$/test): TCLP Extraction Lead (Pb) Analysis by EPA Method 1311 and the appropriate SW846 EPA Method, using an ADHS-certified laboratory
212	LAB ANALYSIS: TCLP Extraction by EPA Method 1311 - Analysis of 8 RCRA Metals by appropriate SW846 EPA Method.	LAB ANALYSIS (\$/test): TCLP Extraction by EPA Method 1311 - Analysis of 8 RCRA Metals by appropriate SW846 EPA Method, using an ADHS-certified laboratory
213	LAB ANALYSIS: Ignitability Test by EPA Method 1010 (Liquid Only)	LAB ANALYSIS (\$test): Ignitability Test by EPA Method 1010 (Liquid Only)
214	LAB ANALYSIS: Ignitability Test by EPA Method 1010 Modified (Soil Only	LAB ANALYSIS (\$/test): Ignitability Test by EPA Method 1010 Modified (Soil Only)
215	LAB ANALYSIS: Corrositivity pH by EPA Method 9045 (Soil Only)	LAB ANALYSIS (\$/test): Corrositivity pH by EPA Method 9045 (Soil Only)
216	LAB ANALYSIS: Corrositivity pH by EPA Method 9040 (GW Only)	LAB ANALYSIS (\$/test): Corrositivity pH by EPA Method 9040 (GW Only)
217	LAB ANALYSIS: Paint Filter Free Liquids by EPA Method 9095	LAB ANALYSIS (\$/test): Paint Filter Free Liquids by EPA Method 9095
	Biofeasil	bility / Biotreatability Analysis
218	LAB ANALYSIS: Phosphate-P by an approved EPA/ASTM Method (Soil)	LAB ANALYSIS (\$/test): Phosphate-P by an approved EPA/ASTM Method (Soil Only)

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219	LAB ANALYSIS: Nitrate + nitrite-N by an approved EPA/ASTM Method (Soil)	LAB ANALYSIS (\$/test): Nitrate + nitrite-N by an approved EPA/ASTM Method (Soil Only).
220	LAB ANALYSIS: Nitrogen (Soil Only)	LAB ANALYSIS (\$/test): Nitrogen using an ADHS-certified laboratory (Soil Only)
221	LAB ANALYSIS: Alkalinity by EPA Method 310.1 (GW Only)	LAB ANALYSIS (\$/test): Alkalinity by EPA Method 310.1 using an ADHS-certified laboratory (GW Only)
222	LAB ANALYSIS: Total Organic Carbon by EPA Method 415.1	LAB ANALYSIS (\$/test): Total Organic Carbon by EPA Method 415.1
223	LAB ANALYSIS: Total Organic Carbon by EPA Method 9060	LAB ANALYSIS (\$/test): Total Organic Carbon—EPA Method 9060
224	LAB ANALYSIS: Ammonia by EPA Method 350.3 or other ASTM Method (GW)	LAB ANALYSIS (\$/test): Ammonia by EPA Method 350.3 or other ASTM Method (GW)
225	LAB ANALYSIS: Sulfate (GW Only) by EPA Method 375.2 or other ASTM Method	LAB ANALYSIS (\$/test): Sulfate by EPA Method 375.2 (GW Only) or other ASTM Method
226	LAB ANALYSIS: Nitrate (GW Only) by EPA Method 353.2	LAB ANALYSIS (\$/test): Nitrate by EPA Method 353.2 (GW Only)
227	LAB ANALYSIS: Alkalinity (Soil) by EPA Method 310.1 Modified	LAB ANALYSIS (\$/test): Alkalinity by EPA Method 310.1 Modified
228	LAB ANALYSIS: Total Dissolved Solids by EPA Method 160.1	LAB ANALYSIS (\$/test): Total Dissolved Solids by EPA Method 160.1
229	LAB ANALYSIS: Total Solids by EPA Method 160.3	LAB ANALYSIS (\$/test): Total Solids by EPA Method 160.3
230	LAB ANALYSIS: Biochemical Oxygen Demand (BOD) by EPA Method 405.1	LAB ANALYSIS (\$/test): Biochemical Oxygen Demand (BOD) by EPA Method 405.1[Note: aqueous matrices only]
	{PRIVATE }W	ork Plan and Report Preparation
231	14-Day Release Confirmation Report	This task consists of the total personnel, equipment, and material costs (\$/Report) to prepare and submit the one to four page release confirmation report in response to a confirmed release based on the presence of free product or laboratory dectectable contaminate concentrations. This report is to be prepared in accordance with ADEQ release reporting requirements. This task also includes a telephone call for 24 hour release notification.

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232	Initial Health And Safety Plan	This activity consists of the total personnel, equipment, and material costs (\$/report) required to complete the following activities: Prepare Initial Health and Safety Plan in accordance with OSHA requirements for all planned activities. This task includes time for review; clerical support; and all other direct costs such as copying and binding.
233	Subsequent Health And Safety Plan	This activity consists of the total personnel, equipment, and material costs (\$/report) required to complete the following activities: Prepare Subsequent Health and Safety Plan modifications in accordance with OSHA requirements for subsequent activities not reasonably anticipated in the Initial Health and Safety Plan.
234	Approved Site Characterization Work Plan Scenario 1: Soil Only	This activity consists of the total personnel, equipment, and material costs (\$/report) required to complete the following activities: prepare site specific work plan as required by ADEQ or for SAF pre-approval purposes. This report includes property background, UST history discussion, and discussion of proposed activities and preparation of cost estimates and budgets. Report costs include: senior level review of document, clerical support, and all other direct costs such as copying and binding and postage. The \$/report cost includes modification, revisions, and resubmittals necessary to obtain agency approval. The \$/report cost does not include mileage, per diem, or other out-of-office expenses. Note: This item does not include SAF application preparation.
235	Approved Site Characterization Work Plan Scenario 2: Soil and Groundwater	This activity consists of the total personnel, equipment, and material costs (\$/report) required to complete the following activities: prepare site specific work plan as required by ADEQ or for SAF pre-approval purposes. This report includes property background, UST history discussion, and discussion of proposed activities and preparation of cost estimates and budgets. Report costs include: senior level review of document, clerical support, and all other direct costs such as copying, binding and postage. The \$/report cost includes modification, revisions, and resubmittals necessary to obtain agency approval. The \$/report cost does not include mileage, per diem, or other out-of-office expenses. Note: This item does not include SAF application preparation.
236	SAF Workplan for In-Situ & Ex-Situ Soil Remediation (SAF Pre-approval Only)	This task consists of the total personnel, equipment, and material costs (\$/report) required to complete an approved Soil Remediation Workplan. The Worklplan must be prepared in accordance with R18-12-607.01 (H) and (I). Activities for the report include the personnel time for preparation of an approved Soil Remediation Workplan, including time for review, clerical support, and all other direct costs such as copying or binding and postage. A Soil Remediation Workplan is appropriate for sites requiring soil remediation only. The \$/report cost includes modification, revisions, and resubmittals necessary to obtain agency approval.
237	Consultant: Standard Site Characterization Report; Up To (4) Soil Borings	This task consists of the total personnel, equipment, and material costs (\$/report) to complete the SCR. The SCR should include data collection, evaluation and documentation including all figures and reports in the format specified by the ADEQ SCM guidance. Required attachments to the SCR include a site location map, site plan, soil contamination map, geologic cross sections, soil sampling analytical results, laboratory reports, chain-of-custody and laboratory QA/QC reports, and Tier I and Tier II Risk-Based

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		Analysis (when appropriate). Activities include the personnel time for preparation of the report including time for review, clerical support, and all other direct costs such as copying, binding and postage. The Site Characterization Report Form should only be submitted if the site has been adequately defined in accordance with ADEO guidance. Field time or pilot and feasibility tests are not to be included in the report preparation task.
238	Consultant: Standard Site Characterization Report; Up To (4) Groundwater Monitor Wells	This task consists of the total personnel, equipment, and material costs (\$/report) to complete the SCR. The SCR should include data collection, evaluation and documentation including all figures and reports in the format specified by the ADEQ SCM guidance. Required attachments to the SCR include a site location map, site plan, soil and groundwater contamination maps, geologic cross sections, soil sampling analytical results, laboratory reports, chain-of-custody and laboratory QA/QC reports, and Tier I and Tier II Risk-Based Analysis (when appropriate). Activities include the personnel time for preparation of the report including time for review, clerical support, and all other direct costs such as copying, binding and postage. The Site Characterization Report should only be submitted if the site has been adequately defined in accordance with ADEQ guidance. Field time or pilot and feasibility tests are not to be included in the report preparation task.
239	Consultant: Standard Site Characterization Report; Up To (4) Soil Borings and (4) Groundwater Monitor Wells	This task consists of the total personnel, equipment, and material costs (\$/report) to complete the SCR. The SCR should include data collection, evaluation and documentation including all figures and reports in the format specified by the ADEQ SCM guidance. Required attachments to the SCR include a site location map, site plan, soil and groundwater contamination maps, geologic cross sections, soil sampling analytical results, laboratory reports, chain-of-custody and laboratory QA/QC reports, and Tier I and Tier Risk-Based Analysis (when appropriate). Activities include the personnel time for preparation of the report including time for review, clerical support, and all other direct costs such as copying, binding and postage. The Site Characterization Report should only be submitted if the site has been adequately defined in accordance with ADEQ guidance. Field time or pilot and feasibility tests are not to be included in the report preparation task.
240	Consultant: Standard Site Characterization Report; Incremental Cost Increase Per Soil Boring	This task consists of the total personnel, equipment, and material costs (\$/boring) for each additional boring over and above the 4 soil borings set forth in a standard soil only or a soil and groundwater SCR.
241	Consultant: Standard Site Characterization Report; Incremental Cost Increase Per Groundwater Monitor Well	This task consists of the total personnel, equipment, and material costs (\$/well) for each additional well over and above the 4 groundwater monitor wells comprising a standard groundwater only or soil and groundwater SCR
242	First Periodic Groundwater Monitoring Report: Up Through 4 Wells (Covers first sampling event)	This task consists of the total personnel, equipment, and material costs (\$/report) necessary to complete the first periodic monitoring report. The report must include the following: complete description of all work completed; periodic water-level-elevation data for each groundwater monitor and recovery well; periodic free product thickness data for each well containing free product; analytical results for groundwater sampling, influent and effluent sampling for all groundwater treatment systems; amount of free product and groundwater recovered; amount of groundwater

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		treated; site diagrams, and analysis of data. Activities for the report include the personnel time for preparation, including time for review, clerical support, and all other direct costs such as copying, binding and postage.
243	First Periodic Groundwater Monitoring Report: Incremental Report Preparation Cost for Each Additional Groundwater Monitor Over Four (Covers first sampling event)	This task consists of the total personnel, equipment, and material costs (\$/well) for each additional well over and above the 4 groundwater monitor wells comprising a standard groundwater monitoring report
244	Subsequent Groundwater Monitoring Report: Up Through 4 Wells (Covers subsequent sampling events)	This task consists of the total personnel, equipment, and material costs (\$/report) necessary to complete each subsequent groundwater monitoring report. Each report must include the following: complete description of all work completed subsequent to last periodic report; periodic water-level-elevation data for each groundwater monitor and recovery well; periodic free product thickness data for each well containing free product; analytical results for groundwater sampling, influent and effluent sampling for all groundwater treatment systems; amount of free product and groundwater recovered; amount of groundwater treated; site diagrams, and analysis of data. Activities for the report include the personnel time for preparation, including time for review, clerical support, and all other direct costs such as copying or binding.
245	Subsequent Groundwater Monitoring Report: Incremental Report Preparation Cost for Each Additional Groundwater Monitor Well Over Four (Covers subsequent sampling events)	This task consists of the total personnel, equipment, and material costs (\$/well) for each additional well over and above the 4 groundwater monitor wells comprising a standard groundwater monitoring report.
246	Approved Corrective Action Plan (CAP)	This activity consists of the total personnel, equipment, and material costs (\$/report) required to complete a CAP, requested by ADEQ, which receives final approval in accordance with ADEQ requirements. The CAP must include the findings of the site characterization investigation, a comparison of three possible remediation methods (one of which must be natural attenuation), and a recommendation as to which method should be implemented. This recommendation must be justified in terms of cost effectiveness and technical feasibility. The CAP must also include a full description of how the remedial method will be implemented, a schedule for the initiation and completion of corrective action activities following plan approval, and a detailed schedule for periodic monitoring and reporting. Activities include the personnel time for preparation of an approved CAP including time for review, clerical support, and all other direct costs such as copying, binding, and postage. Assume that ADEQ will provide the public notice and receive public comment, and that no public meetings will be required. ADEQ requests CAPs for sites where groundwater or surface water is contaminated at levels in excess of water quality standards, or where free product is present NOTE: The CAP is submitted to satisfy the requirements of 40 CFR 280.66-67, and is not an SAF pre-approval work plan.
247	Initial Periodic Remedial Progress Report (Soil and GW)	This task consists of the total personnel, equipment, and material costs (\$/report) required to prepare the initial periodic remedial progress report for passive and active remediation. This report must include a description of all work performed, hydrocarbon recovery, periodic monitoring results, influent

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248	Subsequent Periodic Remedial Progress Report (Soil and GW)	and effluent system sampling results, amount of media treated, site diagrams, and analysis of current and historical data. Activities include the personnel time for preparation of the report including time for review, clerical support, and all other direct costs such as copying, binding, and postage. Note: this report is typically no more than two pages of text with attached data. This task consists of the total personnel, equipment, and material costs (\$/report) required to prepare the subsequent remedial progress reports for passive and active remediation. This report must include description of all work performed, periodic monitoring results, influent and effluent system sampling results, amount of media treated, site diagrams, and analysis of current and historical data. Activities include the personnel time for preparation of the report including time for review, clerical support, and all other direct costs such as copying and binding. Note: this report is typically no more than two pages of text with attached data.
	{PRIVATE }Proje	ect Management and Administration
249	Project Management (For All Site Work) – Percent of Total Professional Service Fees	This task is based on a percentage of Consultant/Professional Service Fees for the entire site work. The activities for this item typically involve general site administration, correspondence with regulatory agencies and clients, and all pre- and post-field planning and administrative and accounting activities.
250	Consultant Cost: Mark-up % on Contracted Work	Mark-up on contracted work is 16%
	{PRIVATE	SAF Application Preparation
251	SAF Application Preparation Cost: Preapproval Application	This task consists of the total personnel, equipment, and material costs (\$/application) required to prepare a SAF Pre-approval Application. Activities include preparation of the application including review, clerical support, and all other direct costs such as copying, binding and postage. Item does not include any workplan preparation; only preparation of the application.
252	SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices	This task consists of the total personnel, equipment, and material costs (\$/application) required to prepare a SAF Reimbursement Application. Activities include preparation of the application including review, clerical support, and all other direct costs such as copying, binding and postage. Assume that the application has no more than 2 Primary (Main Provider) Invoices.
253	SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices	This task consists of the total personnel, equipment, and material costs (\$/application) required to prepare a SAF Reimbursement Application. Activities include preparation of the application including review, clerical support, and all other direct costs such as copying, binding and postage. Assume: 2 < Primary (Main Provider) Invoices <= 5.
254	SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 5 >= 10 Primary (Main Provider) Invoices	This task consists of the total personnel, equipment, and material costs (\$/application) required to prepare a SAF Reimbursement Application. Activities include preparation of the application including review, clerical support, and all other direct costs such as copying, binding and postage.

1999 Cost Ceiling Item Descriptions

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Assume: 5 < Primary (Main Provider) Invoices <= 10.

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Filename: 99DESCR.DOC

Directory: A:

Template: C:\WINNT\Profiles\sem\Application

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Title: Subject:

Author: C. Lee Morris

Keywords: Comments:

Creation Date: 12/15/98 4:36 PM

Change Number: 2

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Total Editing Time: 3 Minutes
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As of Last Complete Printing

Number of Pages:43

Number of Words: 19,883 (approx.) Number of Characters: 113,336 (approx.)

1999 COST CEILINGS

Cost Ceiling Item Code	Unit Based or Task Based	Cost Ceiling Item	Unit of Measureme nt	Cost Ceiling Amount
		PERSONNEL RATES - MILEAGE - PER	DIEM	_
1	UB	Professional Services Rates: Principal Level	\$/Hr	\$114.00
2	UB	Professional Services Rates: Senior Level	\$/Hr	\$97.00
3	UB	Professional Services Rates: Project Level	\$/Hr	\$82.00
4	UB	Professional Services Rates: Staff Level	\$/Hr	\$70.00
5	UB	Professional Services Rates: Field Level	\$/Hr	\$56.00
6	UB	Professional Services Rates: Technical Personnel (Cadd, Computer, Map Production, etc.)	\$/Hr	\$51.00
7	UB	Professional Services Rates: Administrative Assistant	\$/Hr	\$42.00
8	UB	Professional Services Rates: Word Processor (Computer Included)	\$/Hr	\$36.00
9	UB	Construction/Contracting Services Rates: Construction Field Supervisor	\$/Hr	\$60.00
10	UB	Construction/Contracting Services Rates: Skilled Labor Construction/Contracting Services Rates:	\$/Hr	\$43.00
11	UB	Unskilled Labor Construction/Contracting Services Rates:	\$/Hr	\$31.00
12	UB	Equipment Operator (Avg. Rate to Operate a Std. Piece of Equip)	\$/Hr	\$47.00
13	UB	Per Diem Requirement (# Miles Required)	# Miles	60
14	UB	Fieldwork Per Diem Without Overnight Stay	\$/Day	\$30.00
15	UB	Fieldwork Per Diem With Overnight Stay (Incl. Lodging)	\$/Day	\$92.00
16	UB	Consultant Mileage Rate (single person)	\$/Mile	\$1.84
17	UB	Consultant Mileage Rate (two persons)	\$/Mile	\$3.24
18	UB	Contractor Mileage Rate (single person)	\$/Mile	\$1.17
19	UB	Contractor Mileage Rate (two person crew)	\$/Mile	\$1.79
		FIELD ACTIVITIES		
20	UB	Field Activity: Day Rate	\$/Day	\$775.00
21	TB	Utility Locator Service, On-Site Cost	\$/Hour	\$150.00
22	TB	Active Soil Gas Surveys: (Half Day Rate)	\$/Half Day	\$1,711.00
23	TB	Active Soil Gas Surveys: (Daily Rate) Consultant Cost for Drilling and Site Characterization Activities: Make	\$/Day	\$2,667.00
24	TB	Ready/Preparation Cost Consultant Groundwater Sampling And Remedial Activities: Make Ready/Preparation	\$/Event	\$100.00
25	ТВ	Cost Groundwater Monitoring Sampling Fieldwork: 2-inch Well < 100 Feet (Compliance Sampling	\$/Event	\$100.00
26	ТВ	Methodology PURGING IS REQUIRED) Groundwater Monitoring Sampling Fieldwork: 2-inch Well < 100 Feet (Investigative	\$/Well	\$249.00
27	TB	Methodology PURGING IS NOT REQUIRED)	\$/Well	\$137.00

1 1		Groundwater Monitoring Sampling Fieldwork:	1 1	
20	TD	2-inch Wel>= 100 Feet (Compliance	¢ΛΛωΠ	#22/ 00
28	ТВ	Methodology PURGING IS REQUIRED)	\$/Well	\$326.00
		Groundwater Monitoring Sampling Fieldwork:		
20	TD	2-inch Well >= 100 Feet investigative	¢ΛΝ-11	¢170.00
29	ТВ	Methodology PURGING IS NOT REQUIRED)	\$/Well	\$170.00
		Groundwater Monitoring Sampling Fieldwork:		
		4-inch Well < 100 Feet (Compliance	4004 II	4000.00
30	ТВ	Methodology PURGING IS REQUIRED) Groundwater Monitoring Sampling Fieldwork:	\$/WeII	\$320.00
		4-inch Well < 100 Feet (Investigative		
31	ТВ	Methodology -PURGING IS NOT REQUIRED)	\$/Well	\$160.00
31	16	· · ·	Φ/ VVCII	\$100.00
		Groundwater Monitoring Sampling Fieldwork:		
20	TD	4-inch Well >= 100 Feet (Compliance	φ0.N/. II	#070 00
32	ТВ	Methodology PURGING IS REQUIRED) Groundwater Monitoring Sampling Fieldwork:	\$/WeII	\$373.00
		4-inch Well >= 100 Feet (Investigative		
33	ТВ	Methodology PURGING IS NOT REQUIRED)	\$/WeII	\$219.00
33	15	Groundwater Monitoring Sampling Fieldwork:	Ψ/VVCII	Ψ217.00
		6-inch Well < 100 Feet (Compliance	I	
34	ТВ	Methodology PURGING IS REQUIRED)	\$/WeII	\$364.00
		Groundwater Monitoring Sampling Fieldwork:	+ 	+55 1105
		6-inch Well < 100 Feet (Investigative		
35	ТВ	Methodology PURGING IS NOT REQUIRED)	\$/WeII	\$209.00
		Groundwater Monitoring Sampling Fieldwork:		
		6-inch Well >= 100 Feet (Compliance		
36	ТВ	Methodology PURGING IS REQUIRED)	\$/WeII	\$419.00
		Groundwater Monitoring Sampling Fieldwork:	İ	
		6-inch Well >= 100 Feet (Investigative		
37	TB	Methodology PURGING IS NOT REQUIRED) Consultant Cost: Free Product/Fluid Level	\$/WeII	\$230.00
38	ТВ		\$/Well	\$70.00
30	IB	Monitoring Professional Survey of Groundwater Monitor	\$/Weii	\$70.00
39	ТВ	Wells	\$/WeII	\$250.00
- 37	15	Well Abandonment By Grouting: Make	Ψ/VVCII	Ψ230.00
40	ТВ	Ready/Preparation Cost	\$/Event	\$176.00
1	15	Well Abandonment By Grouting,	ψ/ L V CITC	Ψ170.00
41	ТВ	Mob/Demob/Travel Cost	\$/Mile	\$1.44
-				
1 40		Well Abandonment By Drill Out (From Ground	\$ 1. A. II	4050.00
42	ТВ	Surface to a Depth 20 Feet bgs) wen Abandonnent by Grouting, wen Diameter	\$/Well	\$359.00
43	ТВ	<= 2-inch	\$/Foot	\$7.00
			i i	
	TD	Well Abandonment by Grouting, Well Diameter	¢/Foot	¢0.00
44	ТВ	> 2-inch to <= 4-inch well abandonment by Grouting, well diameter	\$/Foot	\$9.00
45	ТВ	> 4-inch	\$/Foot	\$12.00
 		Well Abandonment By Grouting, (3) 2-inch		, 12.00
16	ТВ	Nested Wells In One 7-inch Diameter Borehole	\$/Foot	\$7.00
46	ID	ivested wells in one /-inch Diameter Borenole	φιΓΟΟΙ	\$7.00
		Consultant Cost: Remediation System		
47	ТВ	Start-Up, Operation and Maintenance (\$/visit)	\$/Visit	\$490.00
	DRILLING	RELATED ACTIVITIES - SOIL BORING &	ABANDONMEN	
_		Contractor Cost: Soil Boring and Sampling		
		Make Ready/Preparation Cost: Hollow Stem		
48	ТВ	Auger	\$/Event	\$271.00
 	15	Contractor Cost: Soil Boring and Sampling,	7.21011	4271.00
		Make Ready/Preparation Cost: All Other Rig		
49	ТВ	Types	\$/Event	\$463.00
7/	10	13003	Ψ/ E V OI I C	Ψ703.00

		Contractor Cost: Soil Boring and Sampling		
50	TB	Mob/Demob/Travel Cost: Hollow-Stem Auger	\$/Mile	\$3.00
		Contractor Cost: Soil Boring and Sampling		
51	TB	Mob/Demob/Travel Cost: All Other Rig Types	\$/Mile	\$4.00
		Contractor Cost: Soil Boring and Sampling,		
		Hollow Stem Auger, <=50 Feet Below Ground		
52	ТВ	Surface (bgs)	\$/Foot	\$16.00
		Contractor Cost: Soil Boring and Sampling,	471 001	\$10.00
		Hollow Stem Auger, 51 to 100 Feet Below		
53	ТВ		\$/Foot	\$19.00
- 55	I I D	Ground Surface (bgs)	\$/FUUL	\$17.00
F		Contractor Cost: Soil Boring and Sampling,	φ/E I	#04.00
54	TB	Hollow Stem Auger, > 100 Feet bgs	\$/Foot	\$21.00
		Contractor Cost: Soil Boring and Sampling,	l	
55	ТВ	Air Rotary, <= 50 Feet bgs	\$/Foot	\$33.00
		Contractor Cost: Soil Boring and Sampling,		
56	TB	Air Rotary, 51 to 100 Feet bgs	\$/Foot	\$34.00
		Contractor Cost: Soil Boring and Sampling,		
57	ТВ	Air Rotary Rig, > 100 Feet bgs	\$/Foot	\$35.00
		Contractor Cost: Soil Boring and Sampling,		
58	ТВ	Rotosonic Rig, <= 50 Feet bgs	\$/Foot	\$36.00
		Contractor Cost: Soil Boring and Sampling,	4.1.001	400.00
59	ТВ	Rotosonic Rig, 51 to 100 Feet bgs	\$/Foot	\$37.00
37	15	Contractor Cost: Soil Boring and Sampling,	ΨΠΟΟΙ	Ψ37.00
60	тр	3 1 3	¢/Eoot	\$40.00
60	TB	Rotosonic Rig, > 100 Feet bgs	\$/Foot	\$40.00
	TD	Contractor Cost: Soil Boring and Sampling,	φ/E I	#20.00
61	TB	Dual Wall Percussion Rig, <= 50 Feet bgs	\$/Foot	\$38.00
		Contractor Cost: Soil Boring and Sampling,	l	
62	TB	Dual Wall Percussion Rig, 51 to 100 Feet bgs	\$/Foot	\$39.00
		Contractor Cost: Soil Boring and Sampling,		
63	ТВ	Dual Wall Percussion Rig, > 100 Feet bgs	\$/Foot	\$41.00
		Contractor Cost: Soil Boring and Sampling,		
		Angle Drilling for Hollow-Stem Auger,<= 100		
64	ТВ	Feet	\$/Foot	\$18.00
		Contractor Cost: Soil Boring and Sampling,		
		Angle Drilling for Hollow-Stem Auger, > 100		
65	ТВ	Feet	\$/Foot	\$22.00
		Contractor Cost: Soil Boring and Sampling,	471 001	\$22.00
66	ТВ	Angle Drilling for Air Rotary Rig, <=100 Feet	\$/Foot	\$32.00
30	10	Contractor Cost: Soil Boring and Sampling,	φπ σσι	ψJZ.00
(7	тр		¢/Eoot	¢22.00
67	TB	Angle Drilling for Air Rotary Rig, > 100 Feet	\$/Foot	\$33.00
		Contractor Cost:Soil Boring and Sampling,	ф/ <u>Г</u>	#22.00
68	TB	Angle Drilling for Rotosonic Rig, <= 100 Feet	\$/Foot	\$33.00
		Contractor Cost:Soil Boring and Sampling,	_{*=} .	400.55
69	TB	Angle Drilling for Rotosonic Rig, > 100 Feet	\$/Foot	\$38.00
		Contractor Cost:Soil Boring and Sampling,	I	
		Angle Drilling for Dual Wall Percussion Rig,	I	
70	TB	<= 100 Feet	\$/Foot	\$36.00
		Contractor Cost: Soil Boring and Sampling,		
		Angle Drilling for Dual Wall Percussion Rig, >		
71	ТВ	100 Feet	\$/Foot	\$40.00
	1	Contractor Cost: Soil Boring and Sampling,	1	1 1
		Limited Access Drilling for Hollow-Stem	I	
72	ТВ	Auger, <= 100 Feet	\$/Foot	\$18.00
12	'B		ΨΠΟΟΙ	Ψ10.00
		Contractor Cost: Soil Boring and Sampling,	1 L	
70	TD	Limited Access Drilling for Hollow-Stem	¢/Fast	¢22.00
73	ТВ	Auger, > 100 Feet	\$/Foot	\$22.00

74	ТВ	Contractor Standby Rate, Hollow Stem Auger	\$/Hour	\$149.00
75	ТВ	Contractor Standby Rate, All Other Rig Types	\$/Hour	\$189.00
		Soil Boring Abandonment By Grout:		
76	TB	Contractor Cost, All Boring Diameters	\$/Foot	\$9.00
77	ТВ	Contractor Cost: Concrete Coring and Replacement	\$/Boring	\$52.00
78	TB	Contractor Cost: Concrete Replacement	\$/S.F.	\$11.00
		Contractor Cost: Asphalt Coring and		
79	TB	Replacement	\$/Boring	\$40.00
80	ТВ	Contractor Cost: Asphalt Replacement	\$/S.F.	\$7.50
	DRILLING R	ELATED ACTIVITIES - WELL INSTALLA	TION & ABANI	
81	ТВ	Installation of 2" Wells by Hollow Stem Auger, <= 50 Feet bgs	\$/Foot	\$30.00
		Installation of 2" Wells By Hollow Stem Auger,		
82	TB	51 to 100 Feet bgs	\$/Foot	\$34.00
83	ТВ	Installation of 2" Wells By Hollow Stem Auger, > 100 Feet bgs	\$/Foot	\$36.00
		Installation of 2" Wells By Air Rotary Rig, <=		
84	TB	50 Feet bgs	\$/Foot	\$49.00
85	ТВ	Installation of 2" Wells By Air rotary Rig, 51 to 100 Feet bgs	\$/Foot	\$50.00
86	ТВ	Installation of 2" Wells By Air Rotary Rig, > 100 Feet bgs	\$/Foot	\$54.00
00	- I - '''-	Installation of 2" Wells By Rotosonic Rig, <=	ψη σσι	ψ34.00
87	ТВ	50 Feet bgs	\$/Foot	\$52.00
		Installation of 2" Wells By Rotosonic Rig, 51 to	Φ/ F I	φ <u>το</u> οο
88	TB	100 Feet bgs Installation of 2" Wells By Rotosonic Rig, >	\$/Foot	\$53.00
89	ТВ	100 Feet bgs	\$/Foot	\$60.00
		Installation of 2" Wells By Dual Wall		
90	ТВ	Percussion Rig, <= 50 Feet bgs	\$/Foot	\$51.00
91	ТВ	Installation of 2" Wells By Dual Wall Percussion Rig, 51 to 100 Feet bgs	\$/Foot	\$52.00
71	- I	Installation of 2" Wells By Dual Wall	ψη σσι	Ψ32.00
92	ТВ	Percussion Rig, > 100 Feet bgs	\$/Foot	\$58.00
93	ТВ	Installation of 4" Wells By Hollow Stem Auger,	¢/Eoo+	¢20 00
73	16	<= 50 Feet Installation of 4" Wells By Hollow Stem Auger,	\$/Foot	\$38.00
94	ТВ	51 to 100 Feet	\$/Foot	\$39.00
		Installation of 4" Wells By Hollow Stem Auger,		
95	TB	> 100 Feet	\$/Foot	\$47.00
96	ТВ	Installation of 4" Wells By Air Rotary Rig, <= 50 Feet	\$/Foot	\$57.00
		Installation of 4" Wells By Air Rotary Rig, 51 to		
97	TB	100 Feet	\$/Foot	\$59.00
98	ТВ	Installation of 4" Wells By Air Rotary Rig, > 100 Feet	\$/Foot	\$62.00
		Installation of 4" Wells By Rotosonic Rig, <=	<u></u>	
99	TB	50 Feet	\$/Foot	\$57.00
100	ТВ	Installation of 4" Wells by Rotosonic Rig, 51 to 100 Feet	\$/Foot	\$59.00
404		Installation of 4" Wells By Rotosonic Rig, >	ф/E !	4/5.00
101	ТВ	100 Feet	\$/Foot	\$65.00

1		Installation of 4" Wells by Dual Wall	ו ן	
102	ТВ	Percussion Rig, <= 50 Feet	\$/Foot	\$57.00
		Installation of 4" Wells By Dual Wall	ş 55t	Ţ57,00
103	ТВ	Percussion Rig, 51 to 100 Feet	\$/Foot	\$59.00
		Installation of 4" Wells by Dual Wall		
104	ТВ	Percussion Rig, > 100 Feet	\$/Foot	\$65.00
		Installation of 6" Wells By Hollow Stem Auger,		
105	ТВ	<= 50 Feet	\$/Foot	\$58.00
		Installation of 6" Wells By Hollow Stem Auger,		
106	TB	51 to 100 Feet	\$/Foot	\$60.00
		Installation of 6" Wells By Hollow Stem Auger,		
107	ТВ	> 100 Feet	\$/Foot	\$63.00
		Installation of 6" Wells By Air Rotary Rig, <=		
108	TB	50 Feet	\$/Foot	\$75.00
		Installation of 6" Wells By Air Rotary Rig, 51 to		
109	TB	100 Feet	\$/Foot	\$77.00
	_	Installation of 6" Wells By Air Rotary Rig, >	1	
110	ТВ	100 Feet	\$/Foot	\$83.00
		Installation of 6" Wells By Rotosonic Rig, <=	A / E	
111	ТВ	50 Feet	\$/Foot	\$75.00
110		Installation of 6" Wells By Rotosonic Rig, 51 to		477.00
112	TB	100 Feet	\$/Foot	\$77.00
110	TO	Installation of 6" Wells By Rotosonic Rig, >	¢/= +	¢02.00
113	TB	100 Feet	\$/Foot	\$83.00
114	тр	Installation of 6" Wells By Dual Percussion	¢/East	¢7E 00
114	TB	Rig, <= 50 Feet	\$/Foot	\$75.00
115	ТВ	Installation of 6" Wells by Dual Wall	\$/Foot	\$77.00
113	I I D	Percussion Rig, 51 to 100 Feet Installation of 6" Wells By Dual Wall	⊅/Γ 00l	\$77.00
116	ТВ	Percussion Rig, > 100 Feet	\$/Foot	\$83.00
110	10	Monitor Well Surface Completion - Contractor	ψη σσι	ψ03.00
117	ТВ	Cost: Access Manhole <= 12"	\$/WeII	\$249.00
	15	Monitor Well 'Surface Completion - Contractor	4,11011	Ψ217.00
118	ТВ	Cost: Access Manhole >12" to <=24"	\$/WeII	\$369.00
		Contractor Cost - Well Development:		, , , , , , ,
119	ТВ	Mob/Demob/Travel Cost	\$/Mile	\$2.00
		Well Development Contractor Cost Scenario 1:		, 1100
120	ТВ	2" Well Development Cost, <100 Feet	\$/WeII	\$318.00
		Well Development Contractor Cost Scenario 1:		
121	TB	2" Well Development Cost, >=100 Feet	\$/Well	\$356.00
		Well Development Contractor Cost Scenario 2:		
122	ТВ	4" Well Development Cost, <100 Feet	\$/Well	\$263.00
		Well Development Contractor Cost Scenario 2:		
123	TB	4" Well Development Cost, >=100 Feet	\$/Well	\$337.00
		Well Development Contractor Cost Scenario 3:		
124	ТВ	6" Well Development Cost, <100 Feet	\$/Well	\$339.00
		Well Development Contractor Cost Scenario 3:		
125	ТВ	6" Well Development Cost, >=100 Feet	\$/WeII	\$412.00
		PILOT TESTING		
126	TB	Aquifer Testing: Pump Test	\$/Event	\$4,039.00
127	TB	Aquifer Testing: Slug Test	\$/Event	\$1,807.00
128	ТВ	Pilot Testing: Soil Vapor Extraction (SVE)	\$/Event	\$3,419.00
129	ТВ	Pilot Testing: SVE/Air Sparge	\$/Event	\$4,293.00
130	TB	Pilot Testing: Bioventing/Respiration	\$/Event	\$3,468.00
100	ייי	. not rooming. Dioventing/Neospiration	₩1 - V OI I L	ψυ ₁ που.υυ

		REMEDIAL ACTIVITIES		
131	UB	Backfill and Compaction Excavation Costs	\$/Ton	\$16.00
131	ОВ	Bulk Soil Excavation (Contaminated Soil), All	Ψ/1011	\$10.00
132	UB	Tonnage	\$/Ton	\$6.00
132		Bulk Soil Transportation (Includes Loading,	φ/1011	Ψ0.00
		and Hauling Distances Up to 250 Miles Round		
133	UB	Trip), All Tonnage	\$/Ton	\$16.00
100	"	Landfill Disposal of Petroleum Contaminated	ψητοπ	ψ10.00
134	UB	Soil (PCS)	\$/Ton	\$34.00
191	05	Thermal Remediation of PCS (Ex-Situ, On-Site,	ψητοπ	Ψ01.00
135	UB	Portable Facility)	\$/Ton	\$41.00
133	UB	Thermal Remediation of PCS (Ex-Situ,	\$/1011	\$41.00
136	UB	Off-Site, Fixed Facility)	\$/Ton	\$31.00
130	ОВ	Bioremediation of PCS (Off-Site, Fixed	φ/1011	\$31.00
137	UB	Facility)	\$/Ton	\$32.00
		3.		
138	UB	Pre-Built Remedial Engineering Design	\$/Design	\$4,230.00
120	LID	VES System with Vapor Phase Carbon (10 to	¢/Month	¢/E1.00
139	UB	100 cfm)	\$/Month	\$651.00
140	LID	VES System with Vapor Phase Carbon (10 to	¢ /\ /\ = + \	¢0.40.00
140	UB	100 cfm)	\$/Month	\$948.00
141	UB	Bioventing System (10 to 70 cfm)	\$/Month	\$172.00
		EQUIPMENT RENTAL		
		Equipment Rental: Decon Equipment		
142	UB	(Buckets/Brushes/Detergent)	\$/Day	\$16.00
		Auger Sampling Kit (Hand Auger/Brass		
143	UB	Sleeves)	\$/Day	\$38.00
140	OB	Equipment Rental: Slide Hammer Core	ψιυαγ	\$30.00
144	UB	Sampler	\$/Day	\$35.00
145	UB	Equipment Rental: Photoionization Detector	\$/Day	\$95.00
143	ОВ ОВ	Equipment Rental: Florioidilization Detector	ФIDay	\$75.00
146	UB	(FID)	\$/Day	\$113.00
		- 1 ' · · '		
147	UB	Equipment Rental: LEL/O2 Meter	\$/Day	\$52.00
140	un	Equipment Rental: pH temperature and	¢/D	¢22.00
148	UB	conductivity meter	\$/Day	\$32.00
149	UB	Equipment Rental: Dissolved Oxygen Meter	\$/Day	\$33.00
		Equipment Rental 2-inch Environmental	<u> </u>	
150	UB	Submersible Pump	\$/Day	\$107.00
454		Equipment Rental: 4-inch Environmental	4/5	0400.00
151	UB	Submersible Pump	\$/Day	\$109.00
152	UB	Equipment Rental: Vapor Sample Pump Kit	\$/Day	\$30.00
	I	Equipment Rental: Portable Vapor Extraction		
153	UB	System (VES) Pilot Test Unit	\$/Day	\$427.00
		Equipment Rental: Portable Generator,	,	1
154	UB	Generator <=5kW	\$/Day	\$56.00
155	UB	Equipment Rental: Portable Generator, 5kW <	¢/Day	\$84.00
100	L OB	Generator <= 10kW	\$/Day	Φ04.00
		Equipment Rental: Steam Cleaner/Pressure		
156	UB	Washer	\$/Day	\$104.00
157	UB	Equipment Rental: Water Level Indicator	\$/Day	\$27.00
158	UB	Equipment Rental: Oil/Water Interface Probe	\$/Day	\$57.00
159	UB	Equipment Rental: Bailer Rental	\$/Day	\$14.00
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
160	UB	Equipment Cost: Disposable Bailers	\$/Bailer	\$10.00

	I	Equipment Cost: 50 Gallon, DOT-approved,	1	
161	UB	Drum (new)	\$/Drum	\$52.00
162	UB	Equipment Cost: 50 Gallon, DOT-approved, Drum (reconditioned)	\$/Drum	\$42.00
163	UB	Equipment Rental: Anemometer		\$47.00
i i i	-	• • •	\$/Day	
164	UB	Equipment Rental: CO2 Meter	\$/Day	\$43.00
165	UB	Equipment Rental: VES System with Thermal Oxidizer (100 cfm)	\$/Month	\$2,455.00
166	UB	Equipment Rental: VES System with Thermal Oxidizer (250 cfm)	\$/Month	\$3,164.00
167	UB	Equipment Rental: VES System with Thermal Oxidizer (500 cfm)	\$/Month	\$3,582.00
168	UB	Equipment Rental: VES System with Thermal Oxidizer (750 cfm)	\$/Month	\$4,349.00
169	UB	Equipment Rental: VES System with Catalytic Oxidizer (100 cfm)	\$/Month	\$2,381.00
170	UB	Equipment Rental: VES System with Catalytic Oxidizer (250 cfm)	\$/Month	\$3,457.00
171	UB	Equipment Rental: VES System with Catalytic Oxidizer (500 cfm)	\$/Month	\$4,121.00
		Equipment Rental: Incremental cost for Air Sparge System (up to 100 cfm and up to 13 to		
172	UB	100 psi) over and above base SVE System	\$/Month	\$654.00
173	UB	Equipment Rental: Blower, 160 CFM	\$/Month	\$556.00
174	UB	Equipment Rental: Blower, 280 CFM	\$/Month	\$793.00
175	UB	Equipment Rental: Passive Free Product Skimming Device	\$/Day	\$59.00
		LABORATORY ANALYSIS		
		ORGANIC ANALYSIS		
		LAB ANALYSIS: Total Petroleum		
176	UB	Hydrocarbons (TPH) by 418.1 AZ (Soil Only)	\$/Test	\$61.00
		LAB ANALYSIS: TPH by ADHS Method		
177	UB	8015AZ (C6-C10 gro) (Soil Only)	\$/Test	\$80.00
178	UB	LAB ANALYSIS: TPH by ADHS Method	¢/Tost	¢02.00
170	UB	8015AZ (C10-C32 oro-dro) (Soil Only) LAB ANALYSIS: TPH by EPA Method 8015	\$/Test	\$83.00
179	UB	(modified) / C6-C10) (Air Only)	\$/Test	\$72.00
117		LAB ANALYSIS: TPH (C6-C10)/BTEX by	471000	472.00
180	UB	Method 8015AZ/8021 (Soil Only)	\$/Test	\$99.00
		LAB ANALYSIS: TPH (C6-C10)/BTEX by		
181	UB	Method 8015 (modified) / 8021 (Air Only)	\$/Test	\$104.00
465		LAB ANALYSIS: Aromatic VOCs (BTEX) by	,,-	440.55
182	UB	EPA 8021 (Soil Only)	\$/Test	\$63.00
400		LAB ANALYSIS: Aromatic VOCs (BTEX) by	ф/ Т !	d4/4.00
183	UB	EPA 8260 (Soil Only)	\$/Test	\$164.00
184	UB	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8021 (GW Only)	\$/Test	\$61.00
185	UB	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8260 (GW Only)	\$/Test	\$104.00
186	UB	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8021(Modified) - Air Only	\$/Test	\$82.00
187	UB	LAB ANALYSIS: Aromatic VOCs (BTEX) by EPA 8260 (Modified) - Air Only	\$/Test	\$82.00

100	Ш	LAB ANALYSIS: Method 8021AZ; Halogenated	ф/Т I	¢110.00
188	UB	VOCs Only (Soil Only)	\$/Test	\$119.00
189	UB	LAB ANALYSIS: Method 8260AZ; Halogenated VOCs Only (Soil Only)	\$/Test	\$179.00
190	UB	LAB ANALYSIS: Method 8021AZ; Halogenated VOCs Only (Air Only)	\$/Test	\$106.00
191	UB	LAB ANALYSIS: Method 8260AZ; Halogenated VOCs Only (Air Only)	\$/Test	\$85.00
192	UB	LAB ANALYSIS: Method 8021AZ; Halogenated VOCs Only (GW Only)	\$/Test	\$119.00
		LAB ANALYSIS: Method 8260AZ; Halogenated		
193	UB	VOCs Only (GW Only)	\$/Test	\$158.00
194	UB	LAB ANALYSIS: Method 8021AZ; (GW Only)	\$/Test	\$136.00
195	UB	LAB ANALYSIS: Method 8021AZ; (Soil Only)	\$/Test	\$135.00
196	UB	LAB ANALYSIS: Method 8260AZ; (GW Only)	\$/Test	\$202.00
197	UB	LAB ANALYSIS: Method 8260AZ; (Soil Only)	\$/Test	\$201.00
198	UB	LAB ANALYSIS: Lead by an approved SW846 EPA Method (Soil Only)	\$/Test	\$31.00
199	UB	LAB ANALYSIS: Full List Volatile Organics by EPA Method 8021 (Soil)	\$/Test	\$167.00
200	UB	LAB ANALYSIS: Full List Volatile Organics by EPA Method 8260 (Soil)	\$/Test	\$223.00
		LAB ANALYSIS: Full List Volatile Organics by		_
201	UB	EPA Method 8021 (GW)	\$/Test	\$165.00
202	UB	LAB ANALYSIS: Full List Volatile Organics by EPA Method 8260 (GW)	\$/Test	\$222.00
		LAB ANALYSIS: Polynuclear Aromatic		
		Hydrocarbons (PAHs) by EPA Method 8310		
203	UB	(Soil Only)	\$/Test	\$173.00
		LAB ANALYSIS: Polynuclear Aromatic		
204	шь	Hydrocarbons (PAHs) by EPA Method 8310	φ/T I	4457.00
204	UB	(GW Only)	\$/Test	\$157.00
205	UB	LAB ANALYSIS: Semi-Volatile Organics by	¢/Tost	¢2E2 00
205	UB	EPA Method 8270 (Soil Only) LAB ANALYSIS: Semi-Volatile Organics by	\$/Test	\$353.00
206	UB	EPA Method 8270 (GW Only)	\$/Test	\$348.00
200	<u> </u>	LAB ANALYSIS: Semi-Volatile Organics	ψποστ	ψ340.00
207	UB	(PAHs) by EPA Method 8270 (Soil Only)	\$/Test	\$199.00
		LAB ANALYSIS: Semi-Volatile Organics		
208	UB	(PAHs) by EPA Method 8270 (GW Only)	\$/Test	\$162.00
		LAB ANALYSIS: VOCs by GCMS for		
209	UB	confirmation analysis	\$/Test	\$161.00
		WASTE CHARACTERIZATION ANALYS	IS	
		(GW Only) - FOR WASTE		
		CHARACTERIZATION AND PERMIT		
210	UB	REQUIREMENT PURPOSES ONLY	\$/Test	\$59.00
	- 	LAB ANALYSIS: ICLP Extraction Lead (PD) by	7. 1 300	, , , , , ,
		EPA Method 1311 and the appropriate SW846		
211	UB	EPA Method	\$/Test	\$72.00
		LAB ANALYSIS: TCLP Extraction by EPA		
212	UB	Method 1311 - Analysis of 8 RCRA Metals by	\$/Test	¢222 EU
212	UB	appropriate SW846 EPA Method	φ/1€St	\$233.50
213	UB	LAB ANALYSIS: Ignitability Test by EPA Method 1010 (Liquid Only)	\$/Test	\$39.00
214	LID	LAB ANALYSIS: Ignitability Test by EPA	¢/Toot	¢42.00
214	UB	Method 1010 Modified (Soil Only)	\$/Test	\$43.00

215	UB	LAB ANALYSIS: Corrositivity pH by EPA	\$/Test	\$15.00
215	UR	Method 9045 (Soil Only)	\$/Test	\$15.00
216	UB	LAB ANALYSIS: Corrositivity pH by EPA Method 9040 (GW Only)	\$/Test	\$12.00
210	- OD	LAB ANALYSIS: Paint Filter Free Liquids by	ψ/ I ∇3 l	Ψ12.00
217	UB	EPA Method 9095	\$/Test	\$23.00
	35	BIOFEASIBILITY / BIOTREATIBILITY AN		Ψ20.00
		LAB ANALYSIS: Phosphate-P by an approved	ALIGIO	
218	UB	EPA/ASTM Method (Soil)	\$/Test	31.00
		LAB ANALYSIS: Nitrate + nitrite-N by an	ψ. 1 σστ	
219	UB	approved EPA/ASTM Method (Soil)	\$/Test	30.00
		<u> </u>		
220	UB	LAB ANALYSIS: Nitrogen (Soil Only)	\$/Test	35.00
		LAB ANALYSIS: Alkalinity by EPA Method		
221	UB	310.1 (GW Only)	\$/Test	18.00
		LAB ANALYSIS: Total Organic Carbon by EPA		
222	UB	Method 415.1(GW)	\$/Test	43.00
		LAB ANALYSIS: Total Organic Carbon by EPA	4 = -	47.00
223	UB	Method 9060 (GW)	\$/Test	47.00
224	UB	LAB ANALYSIS: Ammonia by EPA Method	¢/Toot	21.00
224	UB	350.3 or other ASTM Method (GW)	\$/Test	21.00
225	UB	LAB ANALYSIS: Sulfate (GW Only) by EPA Method 375.2 or other ASTM Method	\$/Test	24.00
223		LAB ANALYSIS: Nitrate (GW Only) by EPA	ψा ι σ3ί	24.00
226	UB	Method 353.2	\$/Test	21.00
	· · ·	LAB ANALYSIS: Alkalinity (Soil) by EPA		= 1110
227	UB	Method 310.1 Modified	\$/Test	21.00
		LAB ANALYSIS: Total Dissolved Solids by		
228	UB	EPA Method 160.1	\$/Test	19.00
		LAB ANALYSIS: Total Solids by EPA Method		
229	UB	160.3	\$/Test	12.00
		LAB ANALYSIS: Biochemical Oxygen Demand		
230	UB	(BOD) by EPA Method 405.1	\$/Test	32.00
		WORK PLAN AND REPORT PREPARAT	ION	
221	TD	14-Day Release Confirmation Report	¢/Donort	\$270.00
231	IB	14-Day Release Communication Report	\$/Report	\$270.00
232	ТВ	Initial Health and Safety Plan	\$/Report	\$423.00
232	'' _'	initial Freditif and Salety Flair	ψειτοροίτ	Ψ723.00
233	ТВ	Subsequent Health and Safety Plan	\$/Report	\$100.00
	· · ·	Approved Site Characterization Work Plan	÷	+ 130,00
234	ТВ	Scenario 1: Soil Only	\$/Report	\$3,200.00
		Approved Site Characterization Work Plan	•	
235	TB	Scenario 2: Soil & GW	\$/Report	\$3,900.00
		SAF Workplan for In-Situ & Ex-Situ Soil		
236	TB	Remediation (SAF Pre-approval Only)	\$/Report	\$2,500.00
		Consultant: Standard Site Characterization		
237	ТВ	Report; Up To (4) Soil Borings	\$/Report	\$3,165.00
		Consultant: Standard Site Characterization	¢/D	40.047.00
238	ТВ	Report; Up To (4) Groundwater Monitor Wells	\$/Report	\$3,817.00
220	тр	Report; Up to (4) Soil Borings and (4)	¢/Donort	¢4.452.00
239	ТВ	Groundwater Monitor Wells Consultant: Site Characterization Report;	\$/Report	\$4,452.00
240	ТВ	Incremental Cost Increase Per Soil Boring	\$/Boring	\$75.00
270	1.5	moremental cost increase i di soli boring	Ψισοιπία	Ψ10.00

		Consultant: Site Characterization Report;		
		Incremental Cost Increase Per Groundwater		
241	ТВ	Monitor Well	\$/Well	\$100.00
		First Periodic Groundwater Monitoring Report:		
		Up through 4 Wells (Covers first sampling		
242	TB	event)	\$/Report	\$1,600.00
		First Periodic Groundwater Monitoring Report:		
		Incremental report preparation cost for each		
		addititonal groundwater monitor well over four		
243	TB	(Covers first sampling event)	\$/Well	\$25.00
		Subsequent Groundwater Monitoring Report:		
		Up Through 4 Wells (Covers subsequent	415	40/000
244	ТВ	sampling events)	\$/Report	\$969.00
		Subsequent Groundwater Monitoring Report:		
		Incremental report preparation cost for each		
245	ТВ	additional groundwater monitor well over four	\$/Well	\$25.00
		(Covers subsequent sampling events)		
246	ТВ	Approved Corrective Action Plan (CAP)	\$/Report	\$5,719.00
247	TD	Initial Periodic Remedial Progress Report (Soil	¢/Domost	¢1 000 00
247	ТВ	and/or GW) Subsequent Periodic Remedial Progress	\$/Report	\$1,800.00
248	ТВ	Report (Soil and/or GW)	\$/Report	\$939.00
240	10	PROJECT MANAGEMENT AND ADMINI		\$737.00
ı		PROJECT MANAGEMENT AND ADMINI	STRATION	_
		Project Management (For All Site Work) -	% Of Professional	
249	ТВ	Percent of Total Professional Service Fees	Service Fees	10%
			% Of	
		Consultant Cost: Mark-Up % on	% Of Sub-contracted	
250	UB	Subcontractor Work	Services	16%
		SAF APPLICATION PREPARATION		
		SAF Application Preparation Cost:		
251	ТВ	SAF Application Preparation Cost: Pre-approval Application	\$/Application	\$485.00
251	ТВ	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost:	\$/Application	\$485.00
		SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2		
251 252	ТВ ТВ	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices	\$/Application \$/Application	\$485.00 \$443.00
		SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost:	\$/Application	
252	ТВ	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5	\$/Application	\$443.00
		SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices	\$/Application	
252	ТВ	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost:	\$/Application	\$443.00
252 253	TB TB	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252	ТВ	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost:	\$/Application	\$443.00
252 253 254	TB TB	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253	TB TB	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254	TB TB	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB TB	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB in the fut	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB TB	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB in the fut ure	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB in the fut ure ue	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB in the fut ure	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB TB in the fut ure . ue s	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB TB in the fut ure . ue s Am	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB TB in the fut ure . ue s Am ou	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00
252 253 254 Notes:	TB TB TB in the fut ure . ue s Am	SAF Application Preparation Cost: Pre-approval Application SAF Application Preparation Cost: Reimbursement/Direct Pay Application, <= 2 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement/Direct Pay Application, 2 >= 5 Primary (Main Provider) Invoices SAF Application Preparation Cost: Reimbursement / Direct Pay Application, 5 >=	\$/Application \$/Application	\$443.00 \$579.00

Arizona Department of Environmental Quality

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